

Julie Universal Emulator

There are many cars
but emulator is only one!



No car will ever surprise you!
You will no longer need to refer your customers to other workshops.
You have the choice of 67 programs.

You can use this emulator unlimited number of times for both
testing purposes or it can be left in a car permanently.
Program selection is effected by soldering jumpers from J1 to J7.
To connect the emulator, please refer to specific installation manual.



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Universal Julie emulator includes

41 immo programs

18 seat occupancy sensor programs

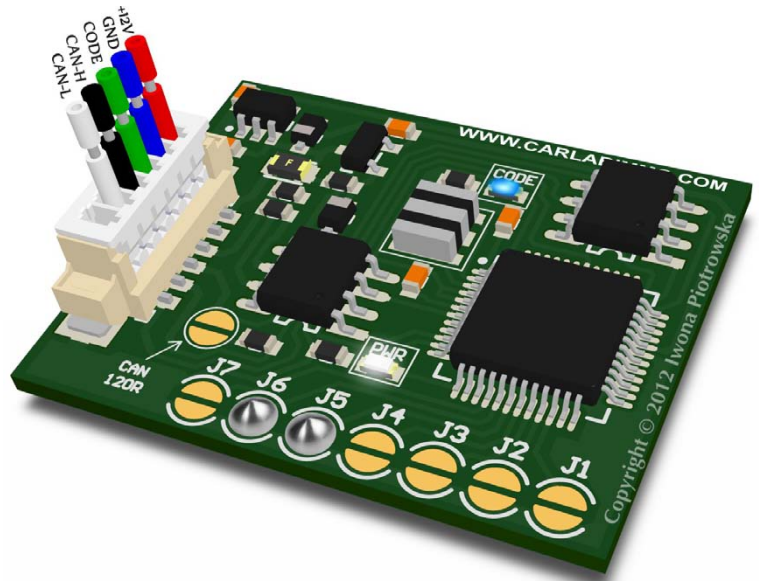
8 tachometer tester programs

- no jumpers – diagnostic mode - it flashes every second
- VW Automatic, EDC15, EDC16 and ME7 if used before – does not flash
 - adjusting to the ECU – flashing 0,1 sec
- after adjusting it lights constantly and blinks every other second

VW automatic immo OFF (single use)

In Universal Julie Emulator
solder jumpers J5 and J6

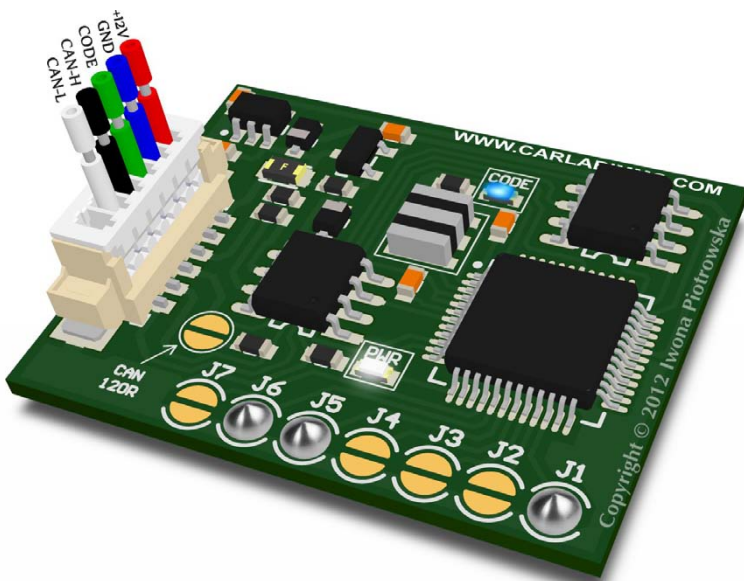
Available as Universal Julie Emulator
program no. 1



VW automatic immo ON (single use)

In Universal Julie Emulator
solder jumpers J1, J5 and J6

Available as Universal Julie
Emulator program no. 2



**VW automatic immo OFF or ON programs
are single use and can only be used in one car!**



USE

TDI EDC16 CAN + K-line **TDI EDC15** **Gasoline Bosch ME7**

Tested on the following electronic control units:

TDI EDC16 CAN + K-line

- 0 281 011 145 VW Passat B5 2.0 TDI, 2006 - mechanical ignition switch
- 0 281 011 258 VW Touareg 2.5 TDI, 2003 - 2010
- 0 281 011 364 Audi A3 1.9 TDI, 2004
- 0 281 011 383
- 0 281 011 385
- 0 281 011 568 VW T5 2.5 TDI, 2006 - 2007
- 0 281 011 843 VW Golf V 2.0 TDI, 2004
- 0 281 011 844 VW Touran 2.0 TDI, 2004
- 0 281 011 855 VW T5 1.9 TDI, 2003
- 0 281 011 856 VW T5 1.9 TDI, 2005
- 0 281 011 882 VW Caddy 1.9 TDI, 2006
- 0 281 011 883 Skoda Octavia 1.9 TDI, 2004 - 2010
- 0 281 011 900
- 0 281 011 945
- 0 281 011 946 VW Touran 1.9 TDI, 2006
- 0 281 011 907 VW Touran 2.0 TDI
- 0 281 012 220 VW Golf V 1.9 TDI, 2005
- 0 281 012 390 VW Caddy 1.9 TDI, 2003 - 2010
- 0 281 012 696 Seat Alhambra, VW Sharan 2.0 TDI, 2005 - 2010
- 0 281 012 698 Skoda Superb 2.0 TDI, 2006
- 0 281 012 762 VW T5 1.9 TDI, 2006r. - 2010
- 0 281 012 792
- 0 281 012 113 Audi A4 2.0 TDI, 2008
- 0 281 012 545 Audi 1.9 TDI, 2007
- 0 281 012 546 Audi 1.9 TDI, 2006
- 0 281 012 654 Audi 2.0 TDI, 2005
- 0 281 012 270 Audi 3.0 TDI A6 Quattro
- 0 281 013 228 VW Jetta 2.0 TDI, 2007
- 0 281 013 299 Skoda Octavia 2.0 TDI, 2005 - 2011
- 0 281 013 302 VW Touareg 2.5 TDI, 2005 - 2010
- 0 281 013 311 VW Passat 2.0 TDI, 2005 - 2009
- 0 281 013 440 VW Passat CC 2.0 TDI, 2005 - 2009
- 0 281 013 606 VW Golf V 1.9 TDI, 2006
- 0 281 013 177 Audi A6 2.7 TDI, 2007



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- 0 281 014 004
- 0 281 014 044 VW Touran 1.9 TDI, 2006 - 2010
- 0 281 014 049 VW T5 2.5 TDI, 2007
- 0 281 014 064 VW Golf 1.9 TDI, 2006 - 2008
- 0 281 014 128 VW Touran 1.9 TDI, 2006 – 2010
- 0 281 014 136 Skoda Octavia 1.9 TDI, 2006 - 2010
- 0 281 014 891 VW T5 2.5 TDI, 2009
- 0 281 014 384 Audi A6 2.7 TDI, 2007
- 0 281 015 175 VW Caddy 1.9 TDI, 2008

TDI EDC15

Capacity 1.2 1.4 1.9 2.5

From 2000 to 2004, some vehicles from 2006 to even 2008 (except Audi with coded pump)

Gasoline Bosch ME7

Capacity 1.4 1.8 2.0 2.4 2.6 2.8 3.0 3.5 4.2

- 0 261 201 144 VW Golf V 1.4 2002 - 2006
- 0 261 204 873 Audi A4/ VW Passat 1.8 1999
- 0 261 204 893 Audi A4 2.4 Quattro 2001
- 0 261 207 360 VW Bora 2.0 2000 - 2005
- 0 261 206 123 Passat 2.8 2000
- 0 261 206 019 Audi A8 4.2 2000
- 0 261 207 534 Seat Leon 1.8 20V 2002

16-pin OBD2 socket



1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator



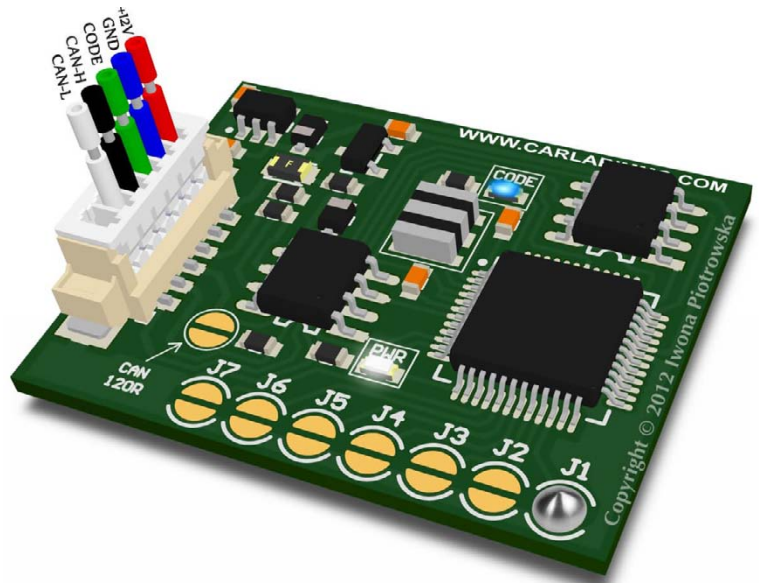
Programs no. 1 and 2 enable the emulator to automatically remove immo from a car by identifying ECU type and selecting a relevant program.

Attention! Selection of programs no.1 and 2 eliminates the possibility to use the remainder of the programs from 6 to 15.

VW without CAN

In Universal Julie Emulator solder jumper J1

Available as dedicated emulator or
Universal Julie Emulator program no. 1



USE

W1 and W2 systems up to around 2001 EDC15 and 5-socket LT28/LT35 ECUs - when the chassis numbers are not entered - even up to 2006 diesel and gasoline Ford cars with VW systems (the VW symbol is visible on the ECU).

Connecting in place of the original immobiliser or instrument cluster.

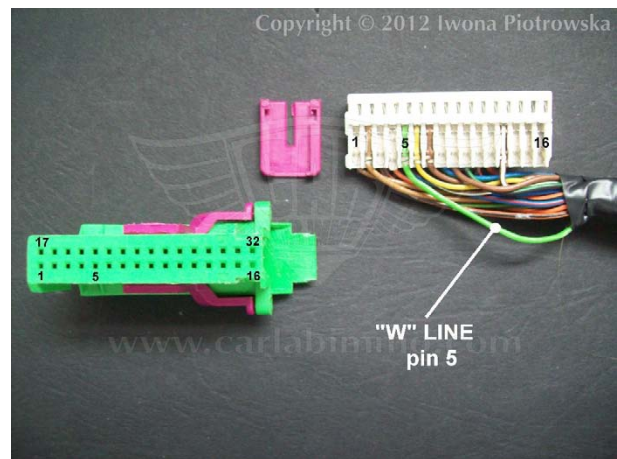
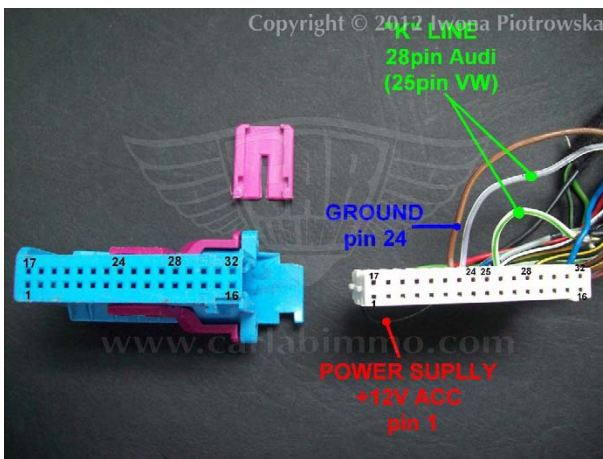
If you cannot start the car, you need to fit the emulator to ECU.

If the emulator is not working, then connect the power supply of the emulator to +12V through the reset button.

Disconnect immo and connect W line with K line to have a diagnosis.

Cars with immobiliser integrated in instrument cluster as of 1998

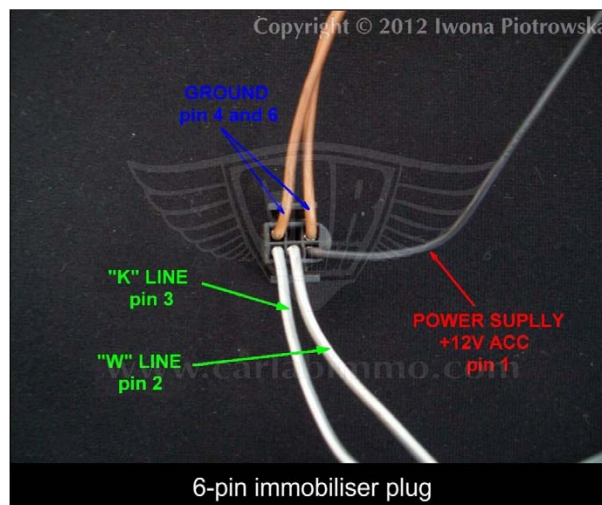
Connection diagram examples

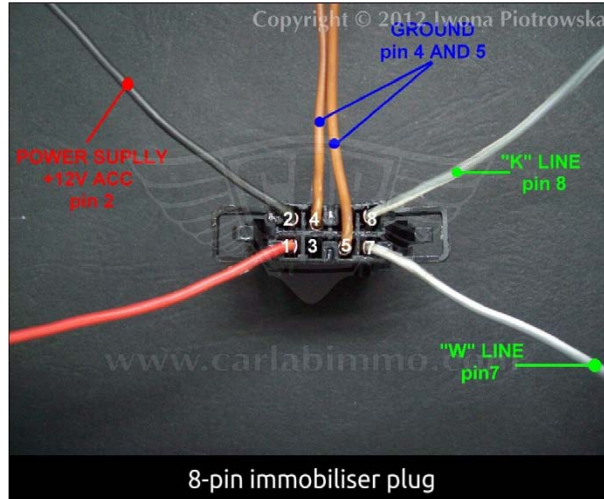


Cut K-line and W-line off the instrument cluster!!!

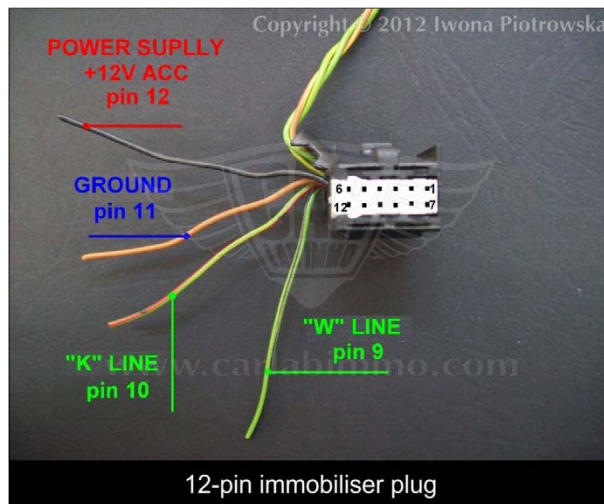
Cars with separate immobiliser

Connection diagram examples

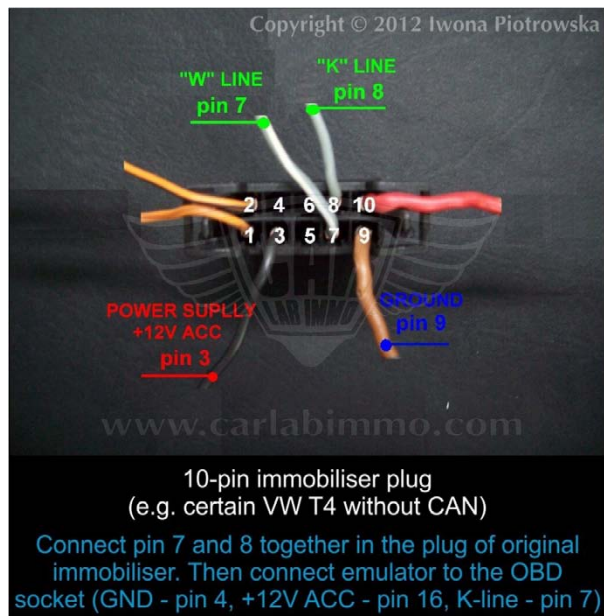




8-pin immobiliser plug



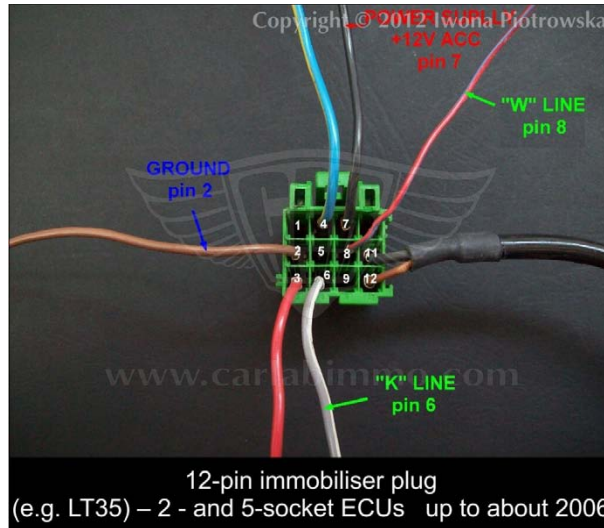
12-pin immobiliser plug



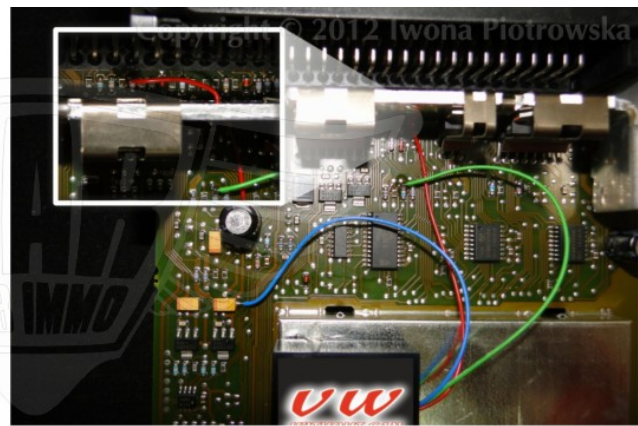
10-pin immobiliser plug
(e.g. certain VW T4 without CAN)

Connect pin 7 and 8 together in the plug of original immobiliser. Then connect emulator to the OBD socket (GND - pin 4, +12V ACC - pin 16, K-line - pin 7)

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Connecting emulator to ECU



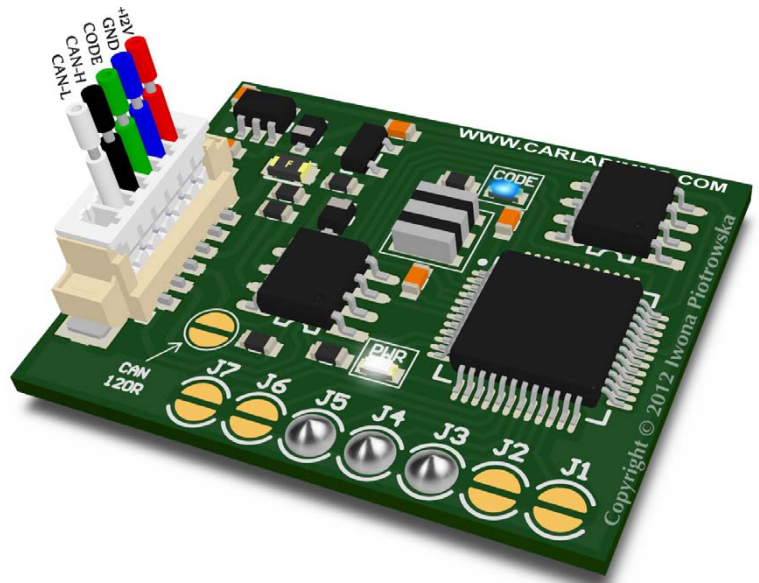
- +12V ACC 38 pin**
- GND 1 pin**
- line W 43 pin**

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VW Hitachi

In Universal Julie Emulator
solder jumpers J3, J4 and J5

Available as dedicated emulator or
Universal Julie Emulator program no. 4

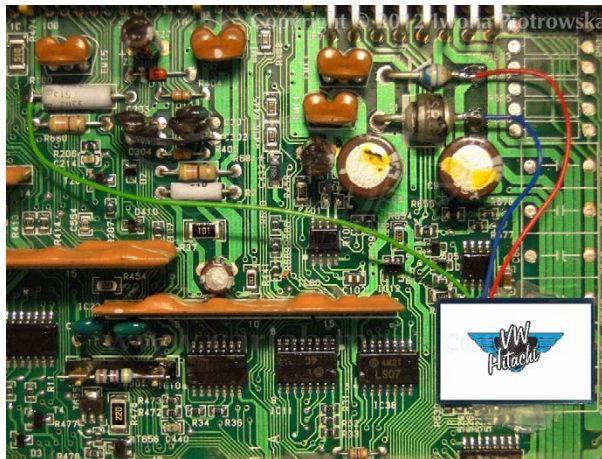


USE

Audi A6 2.8 gasoline Hitachi ECU
Engine code – AAH



Connecting emulator to ECU



+12V connector D - 8 pin

GND connector D - 1 pin

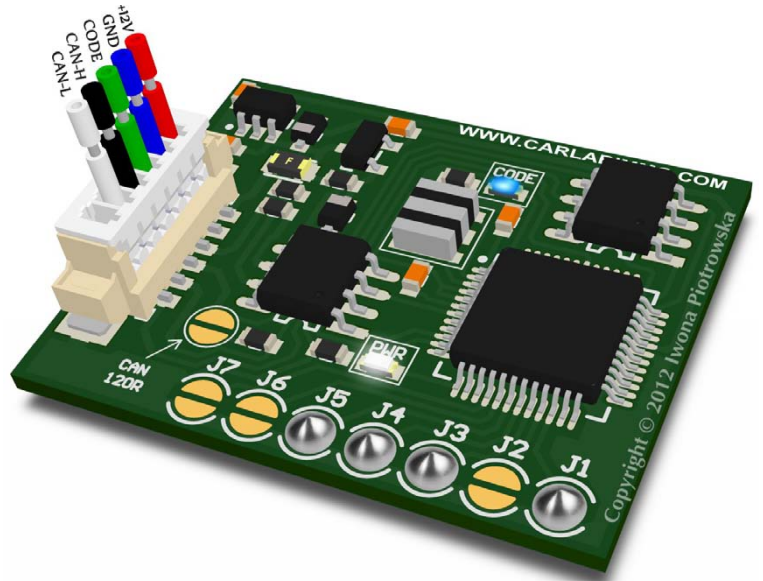
W-line connector C - 12 pin

Unplug the immo and connect W-line with K-line to have a diagnosis.

VW Valve Code

**In Universal Julie Emulator
solder jumpers J1, J3, J4 and J5**

Available as dedicated emulator or
Universal Julie Emulator program no. 5



Connecting in place of the original immobiliser

+12V ACC	red
GND	blue
W-line	green

Unplug immo and connect W-line with K-line to have a diagnosis.

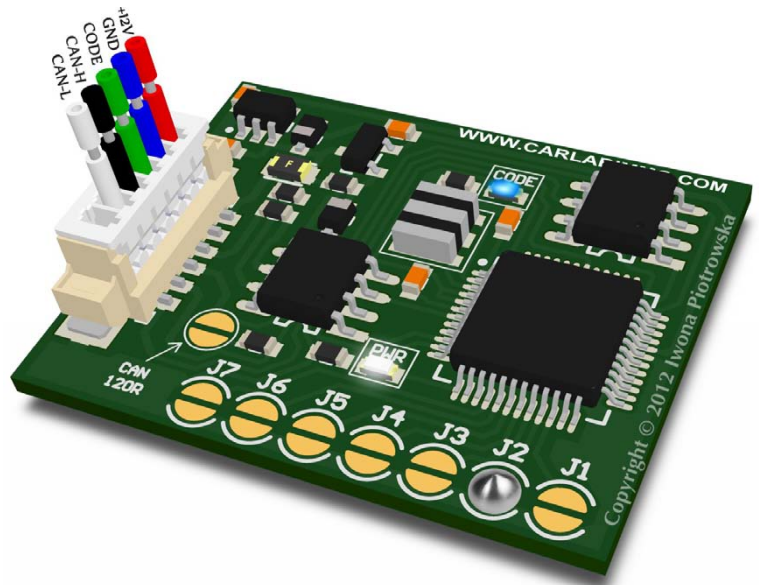
Connecting emulator to the 6-pin plug of the immobiliser



VW EDC15 immo OFF (single use)

**In Universal Julie Emulator
solder jumper J2**

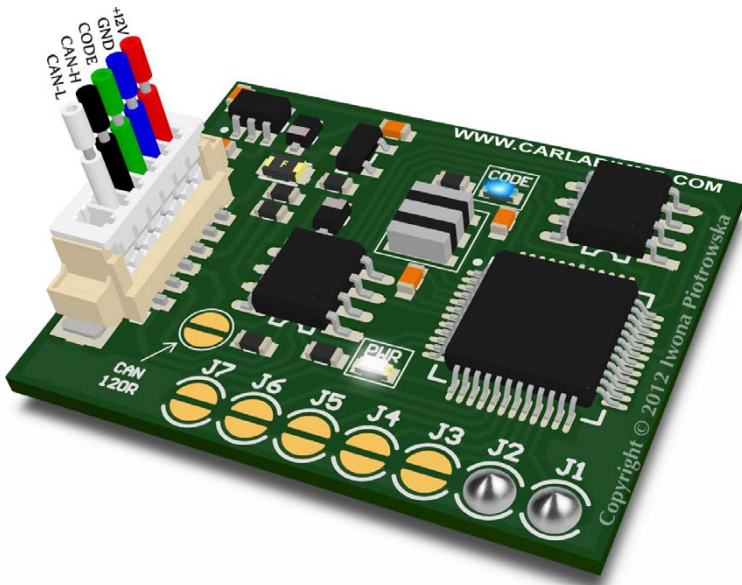
Available as Universal Julie Emulator
program no. 6



VW EDC15 immo ON (single use)

**In Universal Julie Emulator
solder jumpers J1 and J2**

Available as Universal Julie
Emulator program no. 7



**VW EDC15 immo OFF or ON programs
are single use and can only be used in one car!**

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This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft, you will be able to drive to the nearest car garage

USE

VW EDC15 immo emulator – W2 and W3 systems, diesel engines from 2000 to 2004, some to 2006, and even 2008 (except Audi with coded pump)

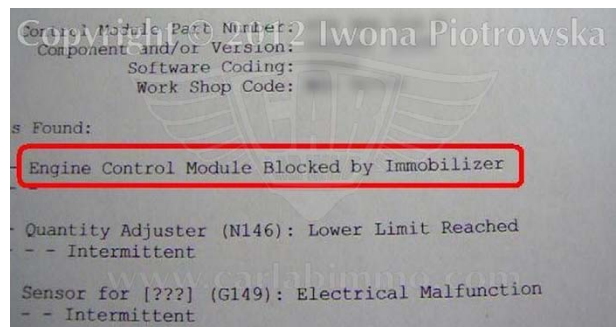
Suitable for vehicles with 2-socket ECUs



Engine capacity

1.2 TDI 1.4 TDI 1.9 TDI 2.5 TDI

- +12V ACC** red
- GND** blue
- K-line** green



Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW EDC15 emulator in the following situations

When getting an **Engine Control Module Blocked by Immobiliser** fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

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16-pin OBD2 socket

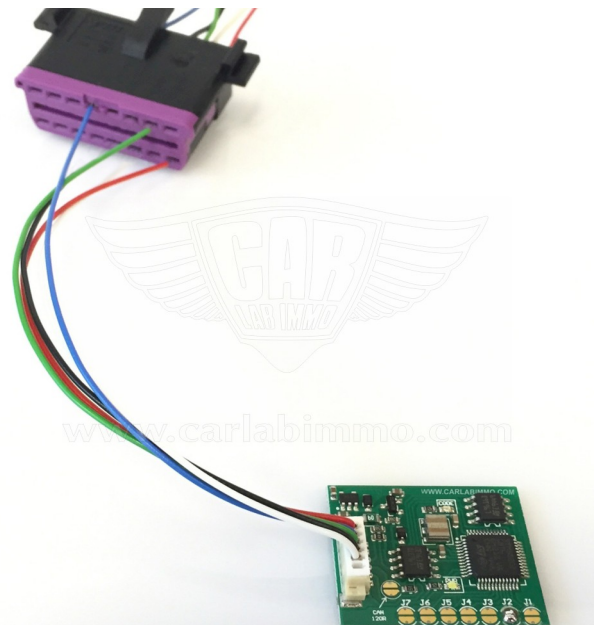


1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

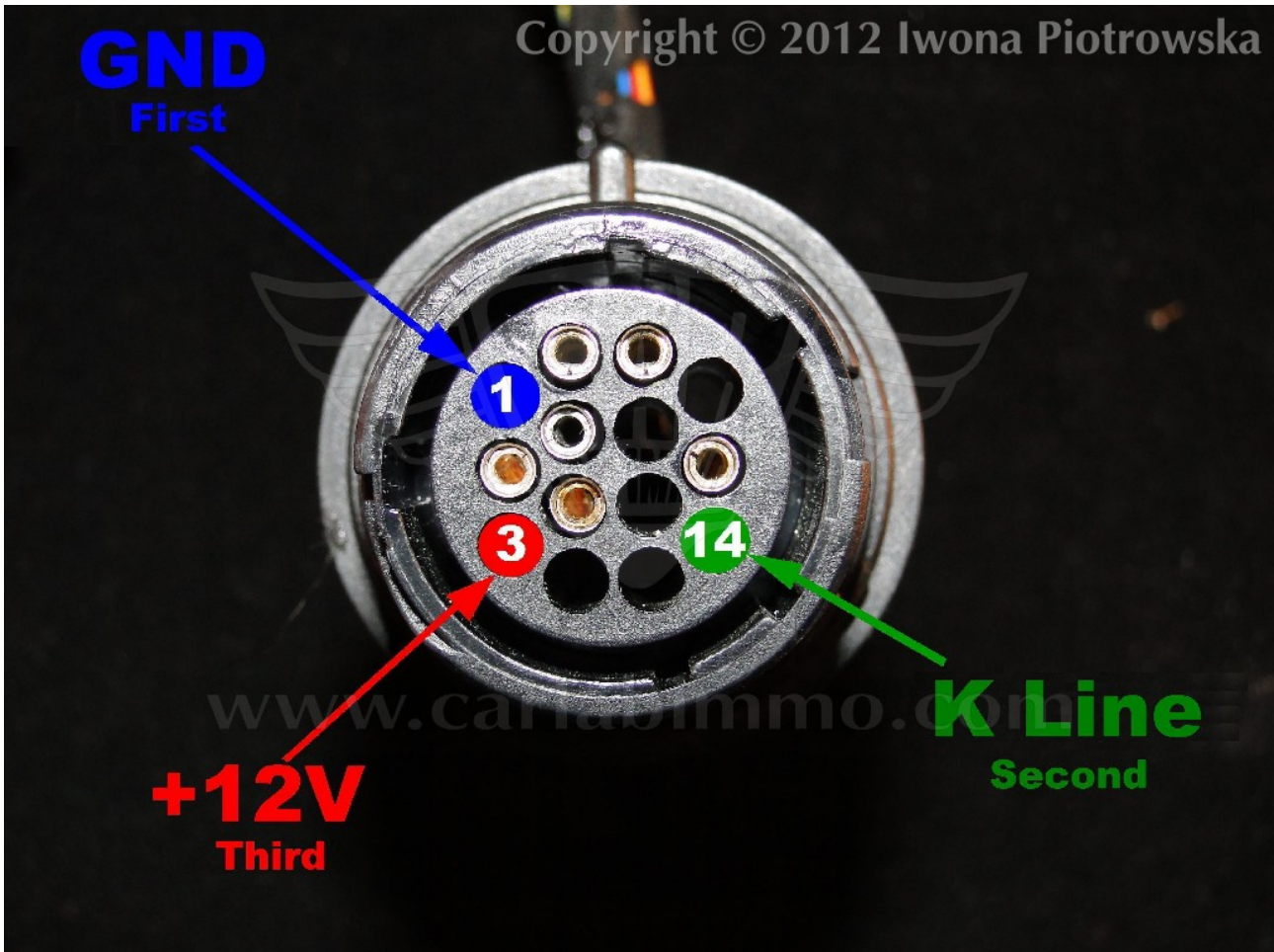
4. Turn ignition OFF and disconnect emulator



VW EDC15 emulator does not remove immo due to a program change to flash memory in ECU:

EDC15 Audi A6 2.5 TDI V6 2003
8E0 907 401 M 0 281 011 255

14-pin socket in LT

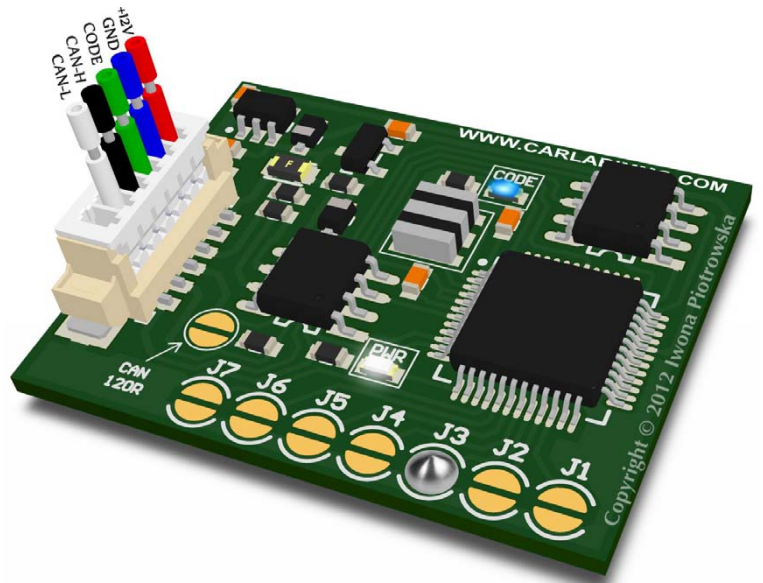


Fitting procedure of emulator is the same as for the OBD2 socket

VW EDC16 K-line immo OFF (single use)

In Universal Julie Emulator
solder jumper J3

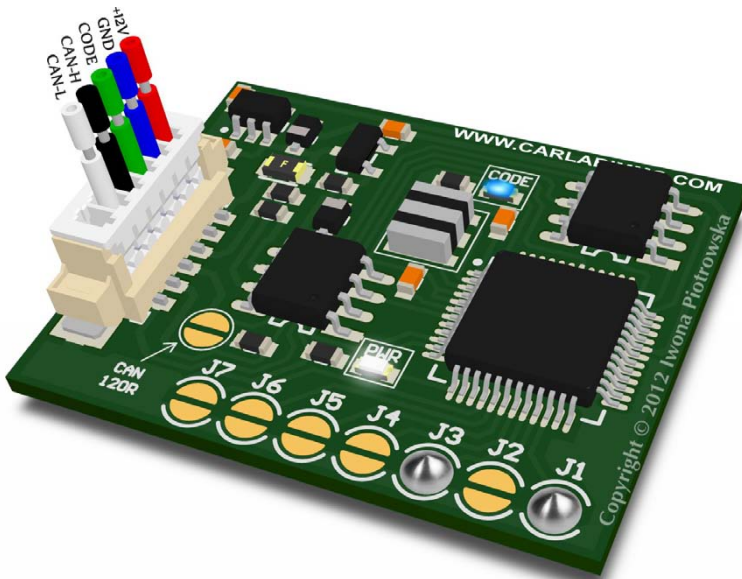
Available as Universal Julie Emulator
program no. 8



VW EDC16 K-line immo ON (single use)

In Universal Julie Emulator
solder jumpers J1 and J3

Available as Universal Julie
Emulator program no. 9



**VW EDC16 K-line immo OFF or ON programs
are single use and can only be used in one car!**



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This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft, you will be able to drive to the nearest car garage

USE

EDC16 K-line – immo OFF
and
EDC16 K-line - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 011 XXX

- 0 281 011 856 VW T5 1.9 TDI, 2005
- 0 281 011 568 VW T5 2.5 TDI 2006/2007
- 0 281 011 883 Skoda Octavia 1.9 TDI 2004 - 2010
- 0 281 011 855 VW T5 1.9 TDI 2003
- 0 281 011 258 VW Touareg 2.5 TDI 2003 - 2010
- 0 281 011 145 VW Passat B5 2.0 TDI 2006 - mechanical ignition switch

0 281 012 XXX

- 0 281 012 762 VW T5 1.9 TDI 2006 - 2010
- 0 281 012 390 VW Caddy 1.9 TDI 2003 - 2010
- 0 281 012 698 Skoda Superb 2.0 TDI 2006
- 0 281 012 696 Seat Alhambra, VW Sharan 2.0 TDI 2005 -2010
- 0 281 012 792
- 0 281 012 220 VW Golf V 1.9 TDI 2005

0 281 013 XXX

- 0 281 013 440 VW Passat CC 2.0 TDI 2005 - 2009
- 0 281 013 302 VW Touareg 2.5 TDI 2005 - 2010
- 0 281 013 311 VW Passat 2.0 TDI 2005 - 2009
- 0 281 013 606 VW Golf V 1.9 TDI 2006
- 0 281 013 299 Skoda Octavia 2.0 TDI 2005 - 2011
- 0 281 013 228 VW Jetta 2.0 TDI 2007

0 281 014 XXX

- 0 281 014 044 VW Touran 1.9 TDI 2006 - 2010
- 0 281 014 004
- 0 281 014 064 VW Golf V 1.9 TDI 2006 - 2008

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- 0 281 014 128 Touran 1.9 TDI 2006 - 2010
- 0 281 014 136 Skoda Octavia 1.9 TDI 2006 - 2010
- 0 281 014 064 VW Golf V 1.9 TDI 2009

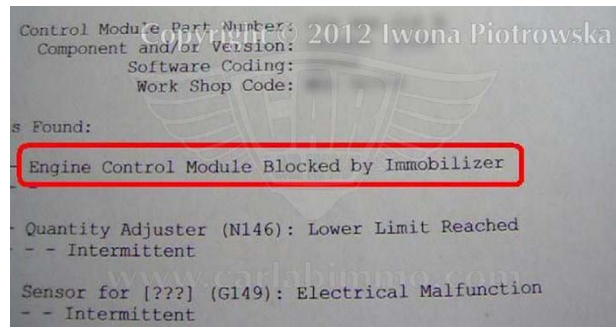
0 281 015 XXX

- 0 281 015 175 VW Caddy 1.9 TDI 2008

Suitable for vehicles with 2-socket ECUs



- +12V ACC** red
- GND** blue
- K-line** green



Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW EDC16 K-line emulator in the following situations

When getting an **Engine Control Module Blocked by Immobiliser** fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

16-pin OBD2 socket

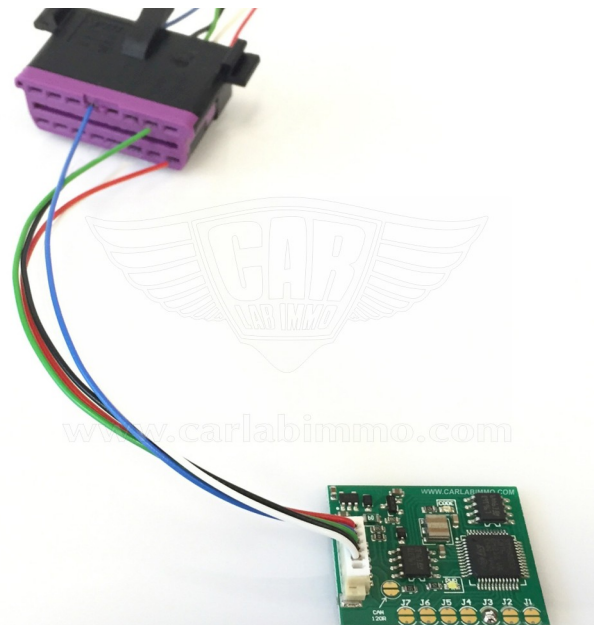


1. Connect all the wires to the OBD2 socket

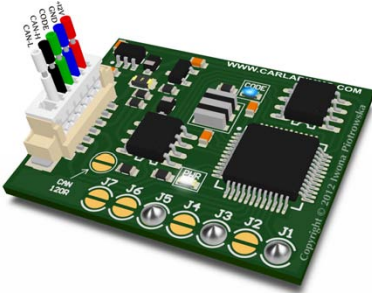
2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

4. Turn ignition OFF and disconnect emulator



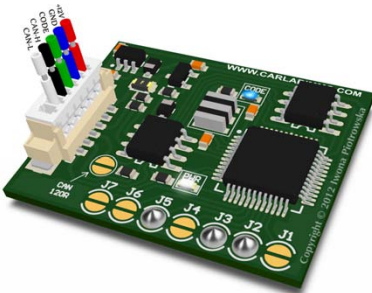
VW EDC16 with CAN 1.9 2.0 TDI immo OFF (single use)



**In Universal Julie Emulator
solder jumpers J1, J3 and J5**

Available as Universal Julie Emulator
program no. 10

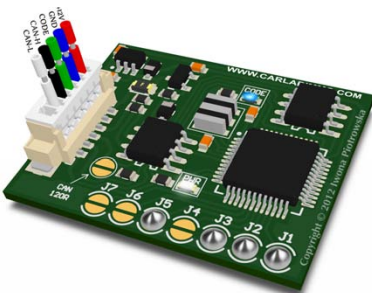
VW EDC16 with CAN 1.9 2.0 TDI immo ON (single use)



**In Universal Julie Emulator
solder jumpers J2, J3 and J5**

Available as Universal Julie Emulator
program no. 11

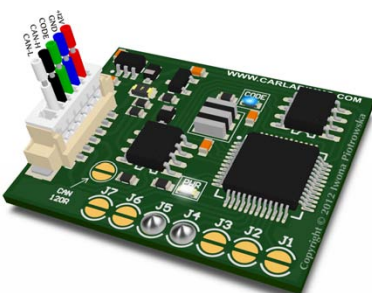
VW EDC16 with CAN 2.7 3.0 TDI immo OFF (single use)



**In Universal Julie Emulator
solder jumpers J1, J2, J3 and J5**

Available as Universal Julie Emulator
program no. 12

VW EDC16 with CAN 2.7 3.0 TDI immo ON (single use)



**In Universal Julie Emulator
solder jumpers J4 and J5**

Available as Universal Julie Emulator
program no. 13

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VW EDC16 with CAN 1.9, 2.0, 2.7, 3.0 TDI immo OFF or ON programs are single use and can only be used in one car!

This emulator replaces damaged immobiliser, instrument cluster or a car key. Immo gets removed once the emulator is connected to the OBD socket. In the case of losing car keys or car theft, you will be able to drive to the nearest car garage

Suitable for vehicles with 2-socket ECUs

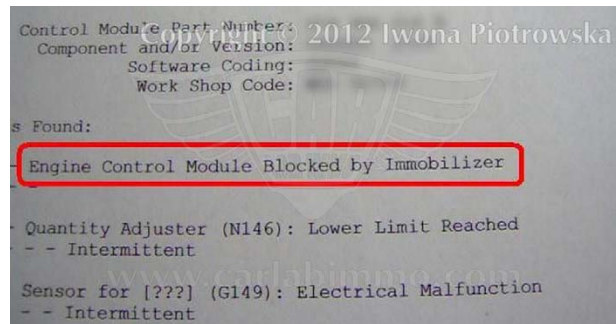


Before using the emulator, check if there is a connection between ECU and OBD2

You can use this emulator in the following situations

When getting an **Engine Control Module Blocked by Immobiliser** fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

- +12V ACC** red
- GND** blue
- CAN-L** white
- CAN-H** black





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USE

**EDC16 with CAN 1.9 2.0 TDI – immo OFF
and**

EDC16 with CAN 1.9 2.0 TDI - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 012 XXX

0 281 012 113 Audi A4 2.0 TDI 2008
0 281 012 545 Audi 1.9 TDI 2007
0 281 012 546 Audi 1.9 TDI 2006
0 281 012 654 Audi 2.0 TDI 2005

**EDC16 with CAN 2.7 3.0 TDI – immo OFF
and**

EDC16 with CAN 2.7 3.0 TDI - immo ON
(turning immo back on is impossible for certain ECUs)

Tested ECUs:

0 281 012 270 Audi A6 Quattro 3.0 TDI
0 281 013 177 Audi A6 2.7 TDI 2007
0 281 014 384 Audi A6 2.7 TDI 2007

16-pin OBD2 socket



1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

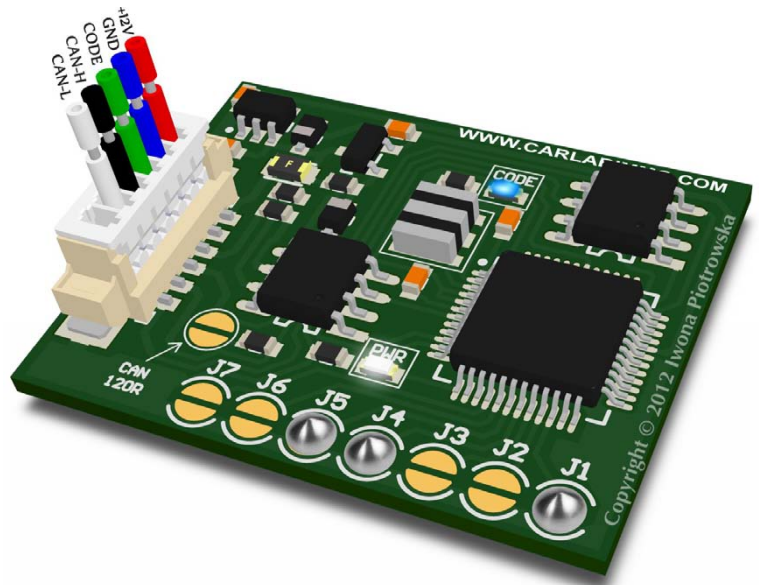
4. Turn ignition OFF and disconnect emulator



VW ME7 immo OFF (single use)

In Universal Julie Emulator
solder jumpers J1, J4 and J5

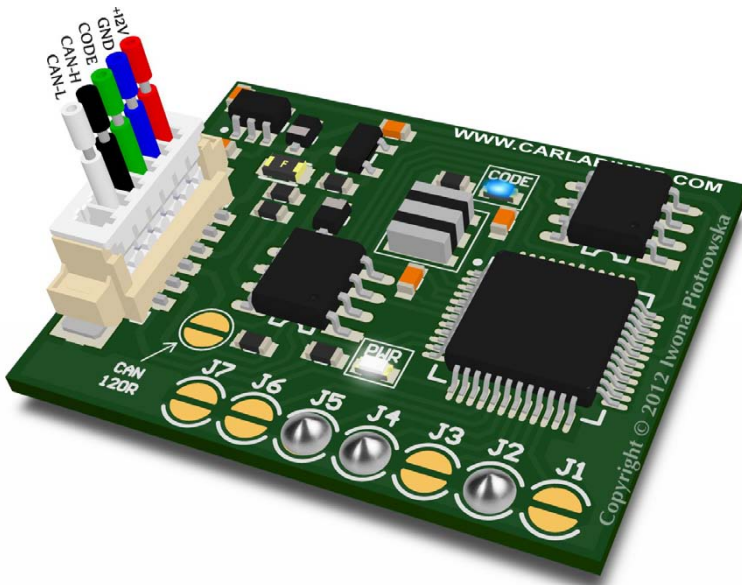
Available as Universal Julie Emulator
program no. 14



VW ME7 immo ON (single use)

In Universal Julie Emulator
solder jumpers J2, J4 and J5

Available as Universal Julie
Emulator program no. 15



**VW ME7 immo OFF or ON programs
are single use and can only be used in one car!**

This emulator replaces damaged immobiliser, instrument cluster or a car key.
Immo gets removed once the emulator is connected to the OBD socket.
In the case of losing car keys or car theft, you will be able to drive to the nearest car garage

USE

VAG group vehicles with 2-socket Bosch ME7 ECUs

1.0 1.4 1.8 2.0 2.4 2.6 2.8 3.0 3.5 4.2
from 1999 to about 2008

Tested ECUs:

- 0 261 201 144 VW Golf V 1.4 2002 - 2006
- 0 261 204 873 Audi A4/ VW Passat 1.8 1999
- 0 261 207 360 VW Bora 2.0 2000 - 2005
- 0 261 206 123 VW Passat 2.8 2000
- 0 261 206 019 Audi A8 4.2 2000
- 0 261 207 534 Seat Leon 1.8 20V 2002

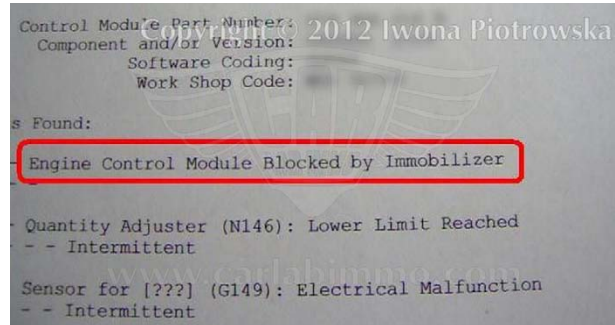
Suitable for vehicles with 2-socket ECUs



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- +12V ACC** red
- GND** blue
- K-line** green



Before using the emulator, check if there is a connection between ECU and OBD2

You can use a VW ME7 emulator in the following situations

When getting an **Engine Control Module Blocked by Immobiliser** fault when making connection with ECU with a diagnostic interface or if your car starts and then dies

16-pin OBD2 socket

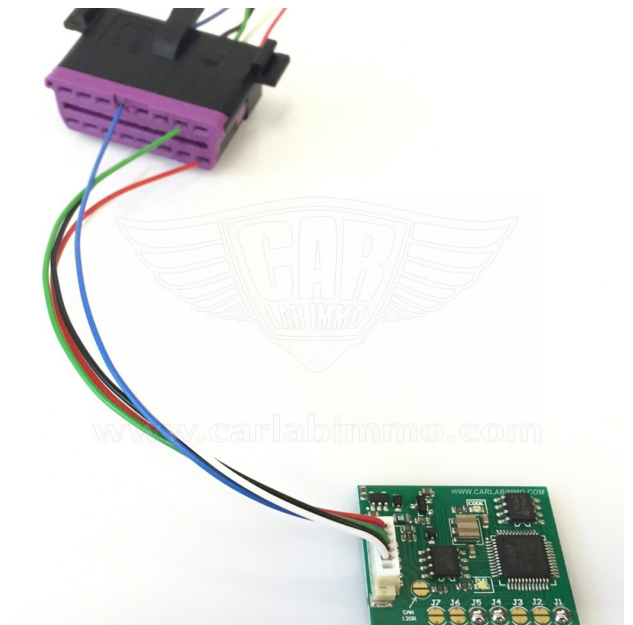


1. Connect all the wires to the OBD2 socket

2. TURN IGNITION ON AND WAIT 20 SECONDS

3. When ignition is turned on, connect the emulator's plug to the emulator's PCB. Once connected, blue LED flashes fast and after several seconds the LED should emit a constant light and blink every other second

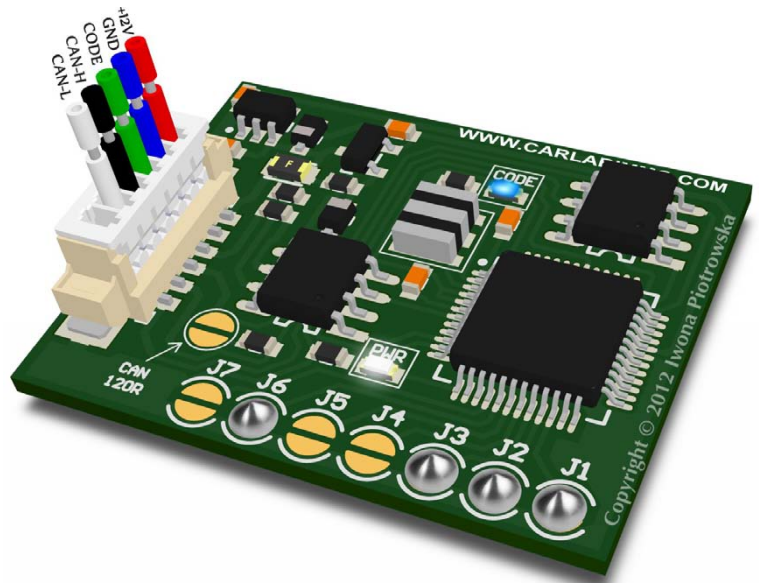
4. Turn ignition OFF and disconnect emulator



Chrysler

**In Universal Julie Emulator
solder jumpers J1, J2, J3 and J6**

Available as dedicated emulator or
Universal Julie Emulator program no. 16

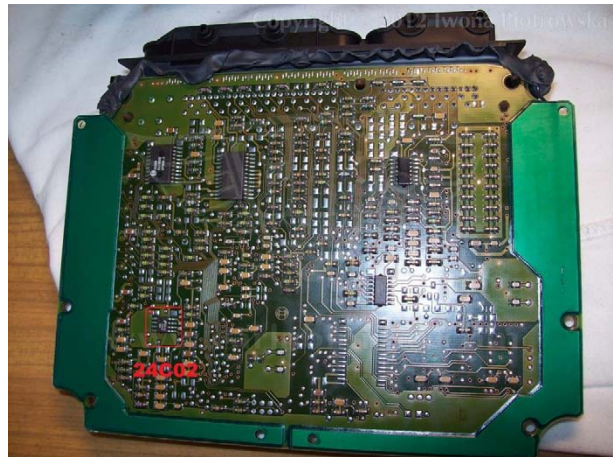


USE

**Chrysler Voyager
Dodge Caravan
Jeep Cherokee
2.5TD 1999-2001**



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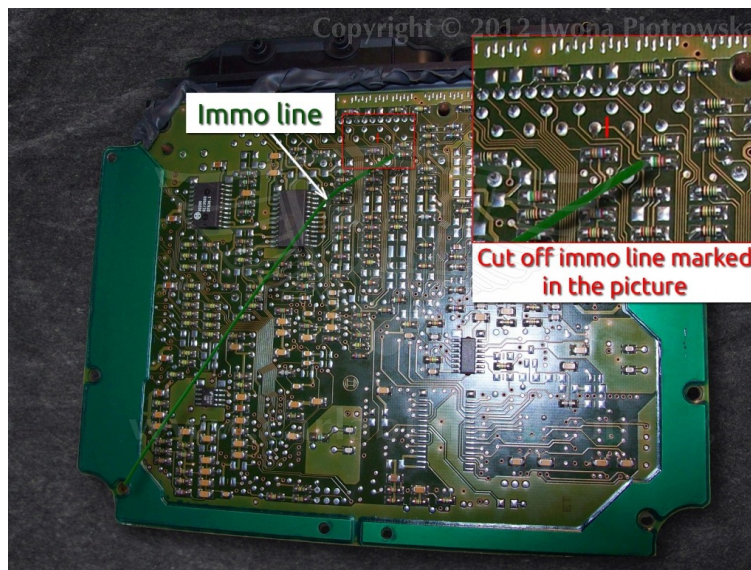


Find **24C02** memory in ECU

Write from 037 to 040 value
00 36 59 55 35 33 31 39 35
35

In 24C02 memory
 write **00 36 59 55 35 33 31 39 35** and **35** values
 in addresses from **037** to **040**

Connection diagram examples

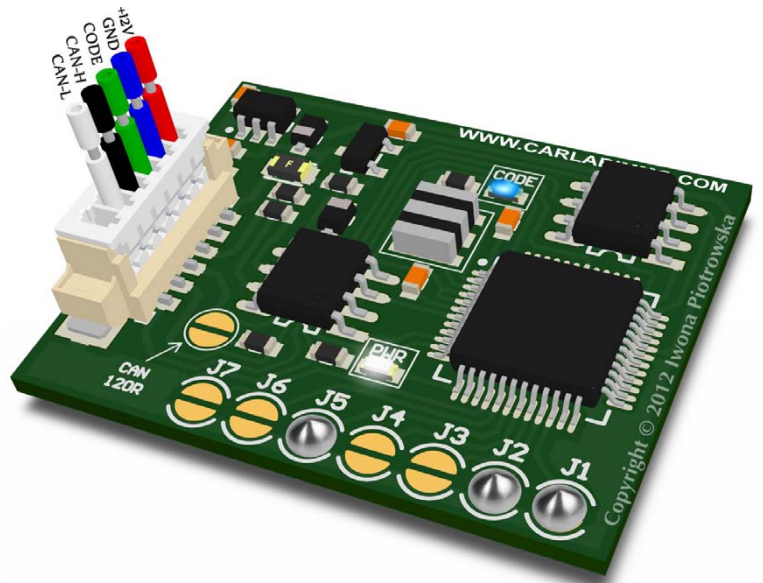


Cut off immo line marked in the picture

Citroen, Peugeot with CAN

In Universal Julie Emulator
solder jumpers J1, J2, and J5

Available as Universal Julie Emulator
program no. 17



USE

EDC16 1.4 1.6 HDI with CAN
EDC15 HDI with CAN

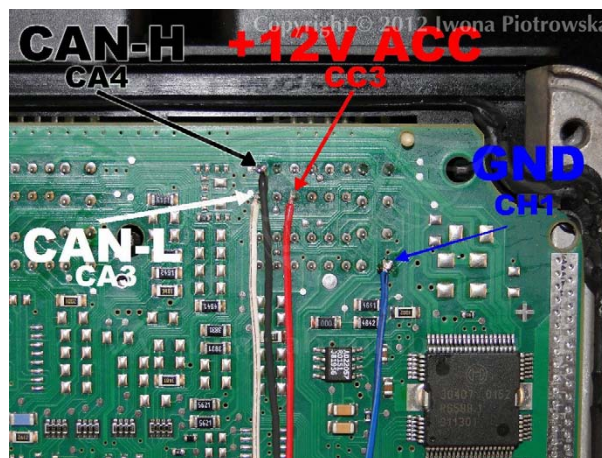
EDC16 ECUs with CAN
1.4 HDI and 1.6 HDI



This emulator requires modification of **95160** or **95320** memory in addresses:

060	B6 F3 B2 30 01 04 FD 40
080	82 92 17 04 54 38 FD E4
0A0	97 E1 A6 36 AB C7 FB F8
860	B6 F3 B2 30 01 04 FD 40
880	82 92 17 04 54 38 FD E4
8A0	97 E1 A6 36 AB C7 FB F8
1060	B6 F3 B2 30 01 04 FD 40
1080	82 92 17 04 54 38 FD E4
10A0	97 E1 A6 36 AB C7 FB F8
1860	B6 F3 B2 30 01 04 FD 40
1880	82 92 17 04 54 38 FD E4
18A0	97 E1 A6 36 AB C7 FB F8

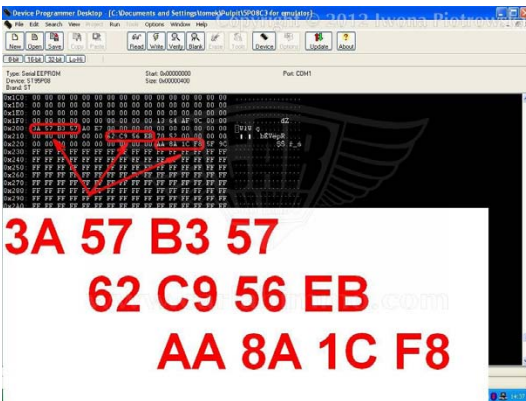
Connecting emulator to ECU



EDC15 HDI with CAN



This emulator requires modification of 5P08C3 memory in addresses shown below:



- In 200-203 values write:
3A 57 B3 57
- In 216-219 values write:
62 C9 56 EB
- In 22A-22D values write:
AA 8A 1C F8

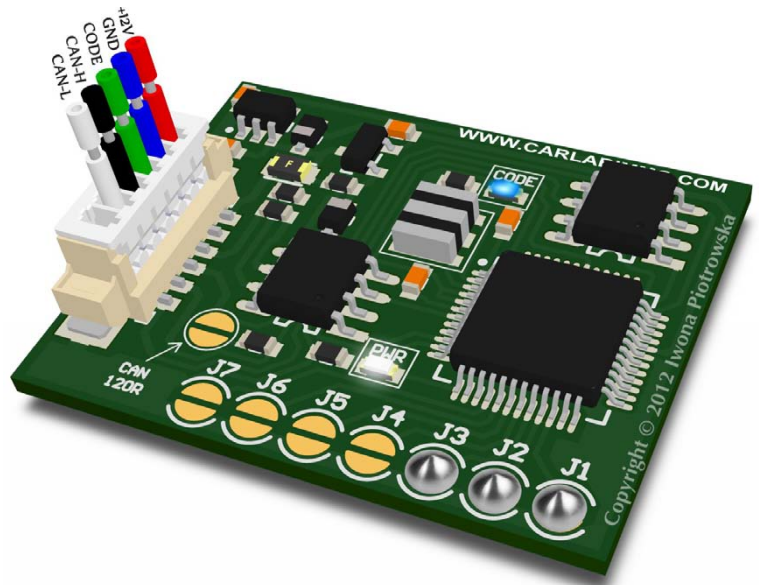
Connecting emulator to ECU



Daewoo 1

In Universal Julie Emulator
solder jumpers J1, J2 and J3

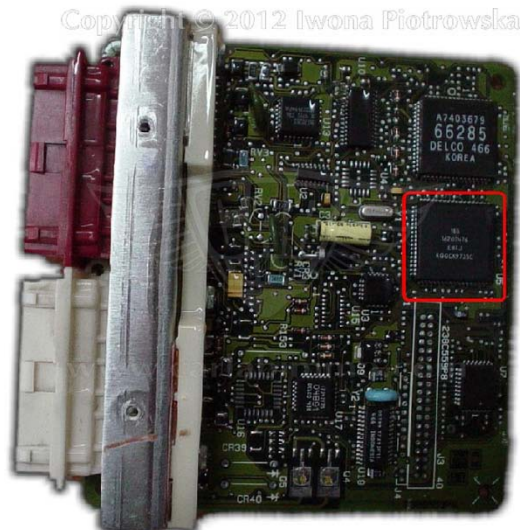
Available as dedicated emulator or
Universal Julie Emulator program no. 18



USE

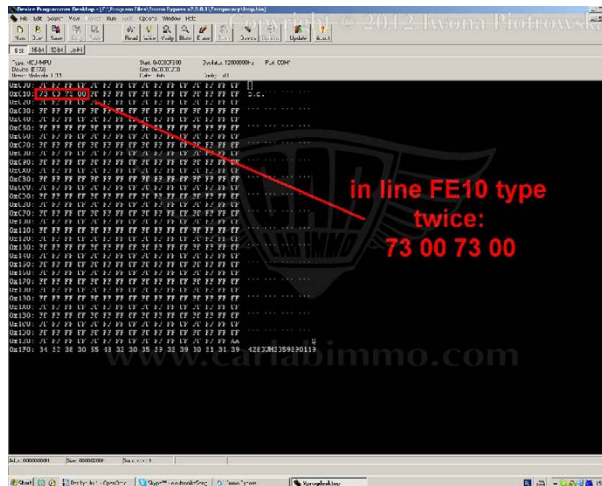
ECUs with white - red sockets and ECUs with blue sockets

ECU with white – red socket

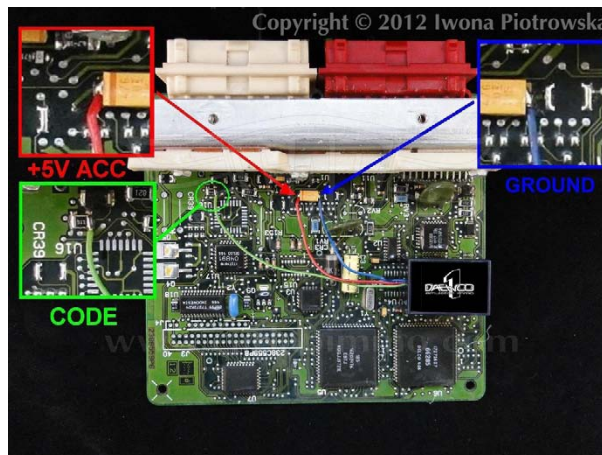


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This emulator requires modification of **Motorola HC11F1** processor located in ECU.



In address 10, write value **73 00 73 00** twice



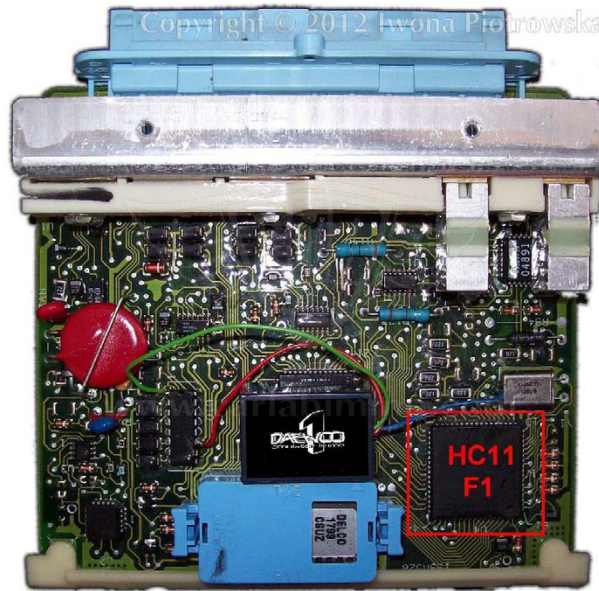
Once you modified Motorola, connect emulator to the ECU as pictured.

Before connecting the emulator, it must be precisely insulated with insulation tape and the original immobiliser must be disconnected!!!

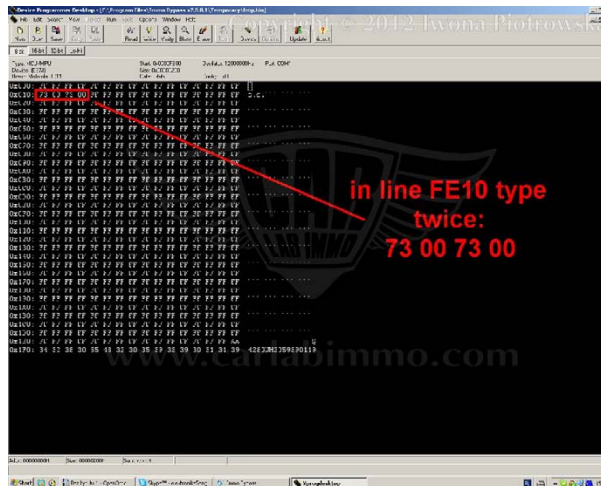
In case of problems with starting the car, disconnect power supply (+12V) in ECU and connect +12V ACC in place of power supply.

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ECU with blue socket



This emulator requires modification of **Motorola HC11F1** processor located in ECU



In address **FE10**, write value **73 00 73 00** twice

Once you modified Motorola, connect emulator to the ECU as pictured.



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+5V VCC leg 11 of DELCO 9621 unit

GND GND of resonator (quartz)

Code leg 1 of DELCO 9621 unit

Disconnect immo or cut off pin B7 from ECU

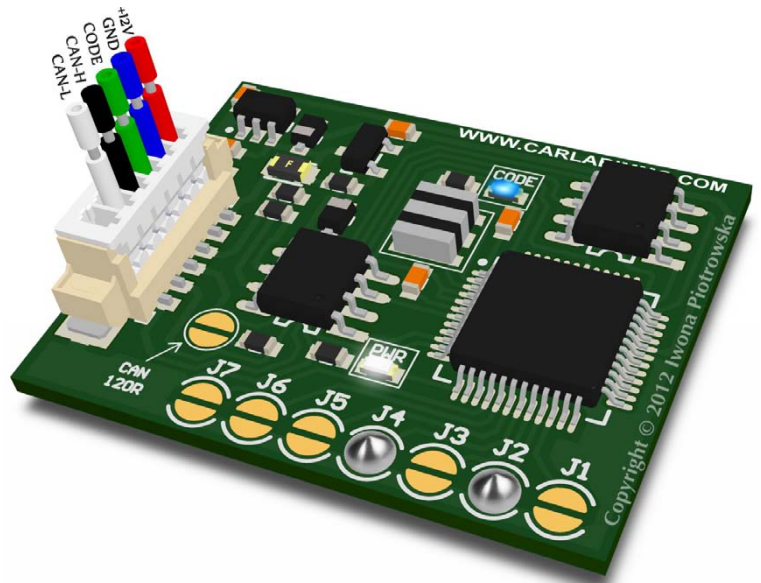
Before connecting the emulator, it must be precisely insulated with insulation tape and the original immobiliser must be disconnected!!!

In case of problems with starting the car, **disconnect power supply (+12V) in ECU** and connect +12V ACC in place of power supply.

Daewoo 2

**In Universal Julie Emulator
solder jumpers J2 and J4**

Available as dedicated emulator or
Universal Julie Emulator program no. 19

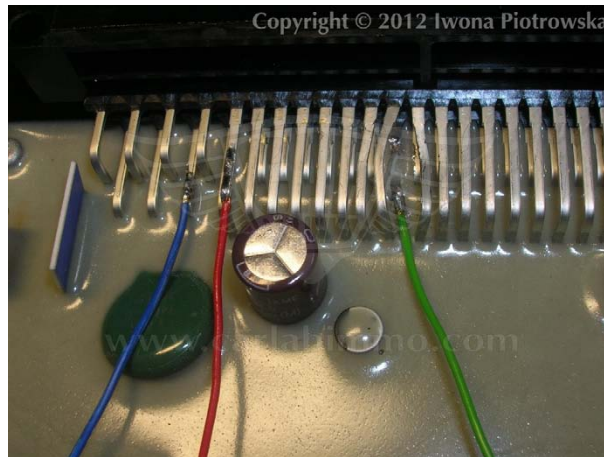


This device self-learns ECU code

USE

- Matiz SIEMENS ECU**
- Matiz KEMSCO ECU**
- Tacuma KEMSCO ECU**
- Chevrolet Spark D32 ECU 0.8ccm 38kW**
- Lanos hybrid ECU 1.4 OHC**
- Rezzo hybrid ECU 2.0 16V 89kW DOHC**
- Kalos SIRIUS D42 ECU 1.2**
- Chevrolet Aveo 4R ECU 1.2 8V**

Matiz SIEMENS ECU



Connecting emulator to ECU

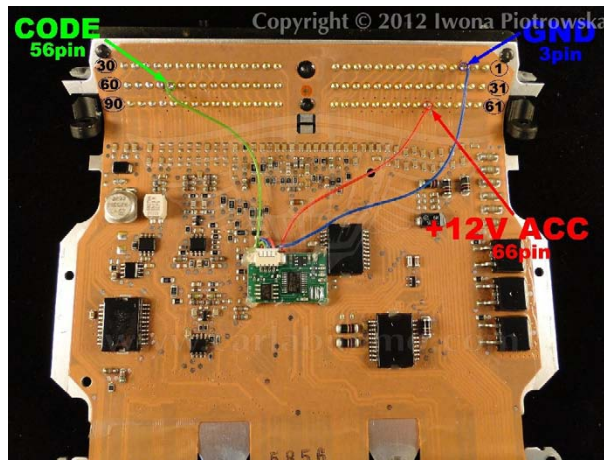
Power	32 pin (or pin 24 ACC)
GND	3 pin
Immo	11 pin

Cut off pin 11 from wiring in the car !!!

Matiz KEMSCO ECU



Connecting emulator to ECU



Tacuma KEMSCO ECU



Connecting emulator to ECU

Power **60 pin**

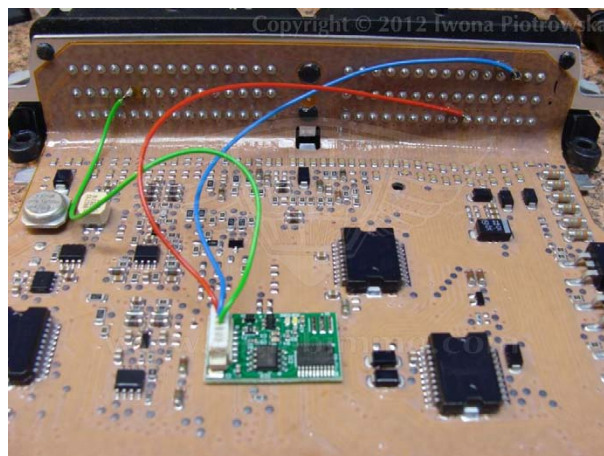
GND **3 pin**

Immo **56 pin**

Cut off pin 56 from wiring in the car!!!

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Chevrolet Spark D32 ECU 0.8ccm 38kW

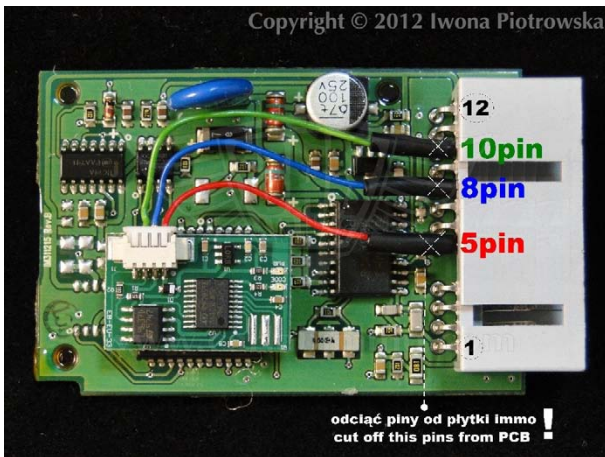


Connecting emulator to ECU

- Power** 66 pin
- GND** 3 pin
- Immo** 56 pin



Lanos hybrid ECU 1.4 OHC
and
Rezzo hybrid ECU 2.0 16V 89kW DOHC



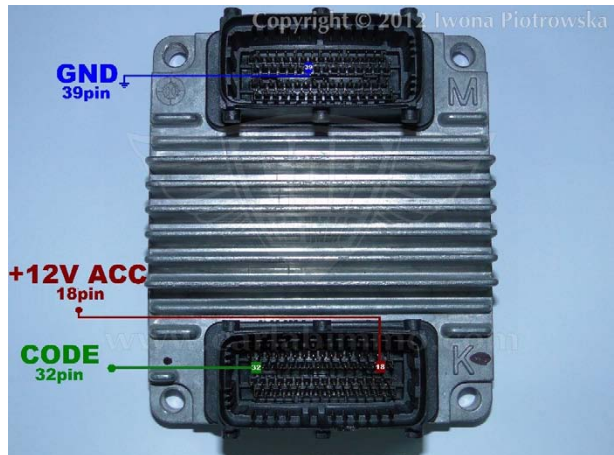
Connect emulator to the socket of disconnected immobiliser:

- Power** 5 pin
- GND** 8 pin
- Immo** 10 pin

Or connect it to ECU socket

- Power** 18 pin (socket - K)
- GND** 39 pin (socket - M)
- Immo** 32 pin (socket - K)

Cut off pin 32 from wiring in the car!!!



Kalos SIRIUS D42 ECU 1.2



Connecting emulator to ECU

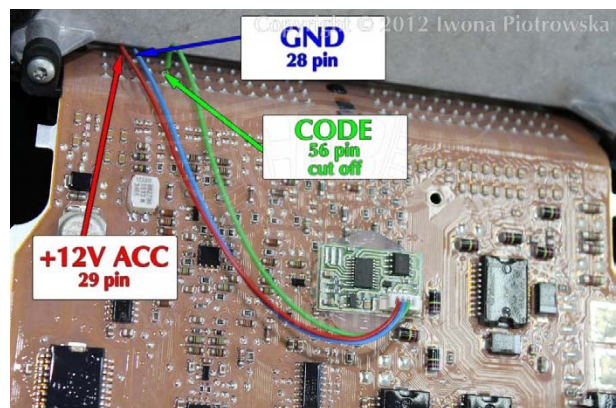
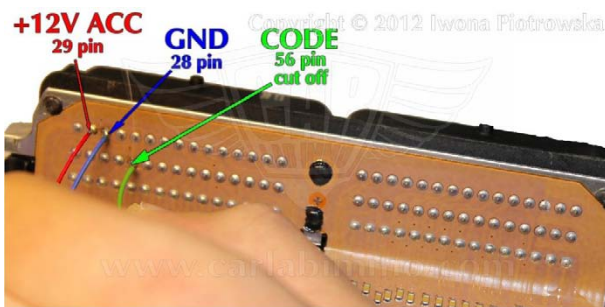
Power 29 pin

GND 28 pin

Immo 56 pin

Cut off pin 56 from wiring in the car!!!

Chevrolet Aveo 4R ECU 1.2 8V



Connecting emulator to ECU

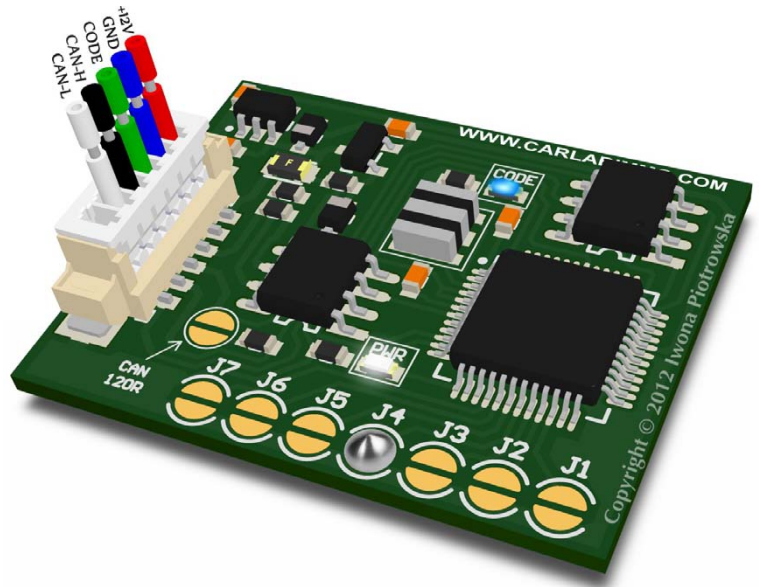
Power	29 pin
GND	28 pin
Immo	56 pin

Cut off pin 56 from wiring in the car!!!

Fiat without CAN

In Universal Julie Emulator
solder jumpers J4

Available as dedicated emulator or
Universal Julie Emulator program no. 20



USE

Fiat, Citroen, Peugeot diesel
2-socket ECU

Alfa, Fiat, Lancia
1.9 Jtd 2.4 Jtd 5-socket ECU

IAW49F
Fiat Bravo 1.6 16V

IAW 4AF
Fiat Seicento, Panda 1.1 8V

Lancia Kappa 2.0i 16V Turbo
0 261 203 792

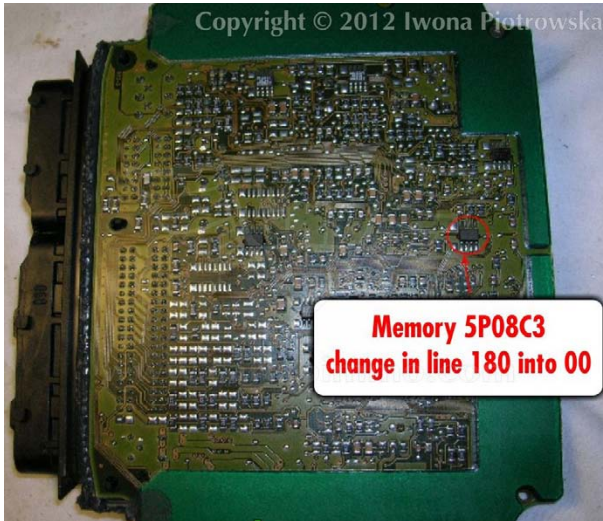
Lancia Kappa 2.0i 20V
0 261 203 670

Lancia Kappa 2.4i 16V
0 261 203 669

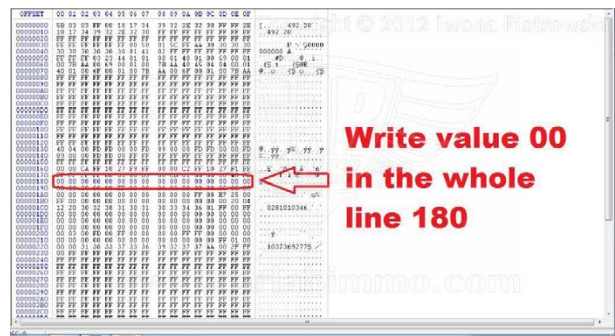
Lancia Kappa 3.0i 24V
0 261 203 482

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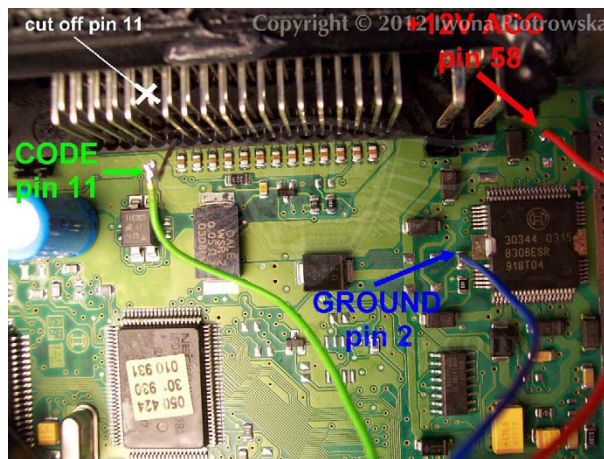
Fiat, Citroen, Peugeot diesel
2-socket ECU



After modifying **5P08C3** memory in line **180** into **00** values, connect emulator in place of the original immobiliser

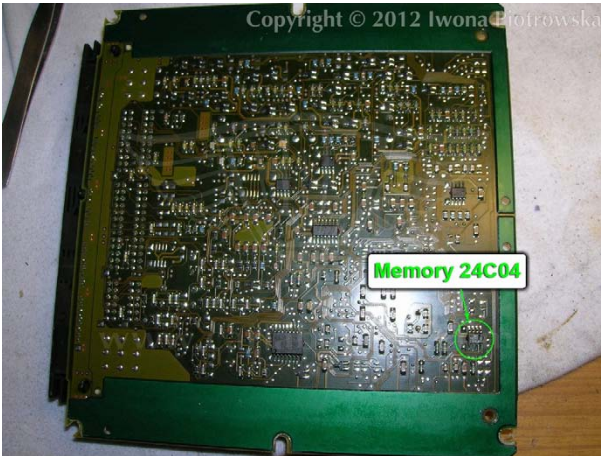


Connecting emulator to ECU

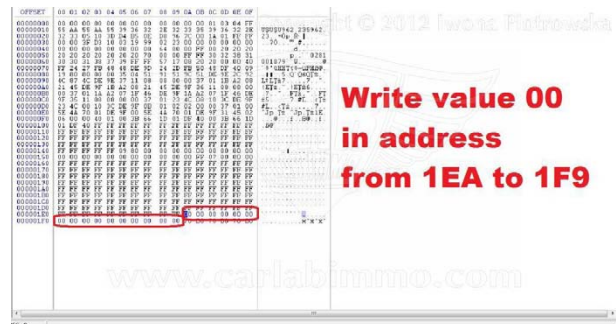


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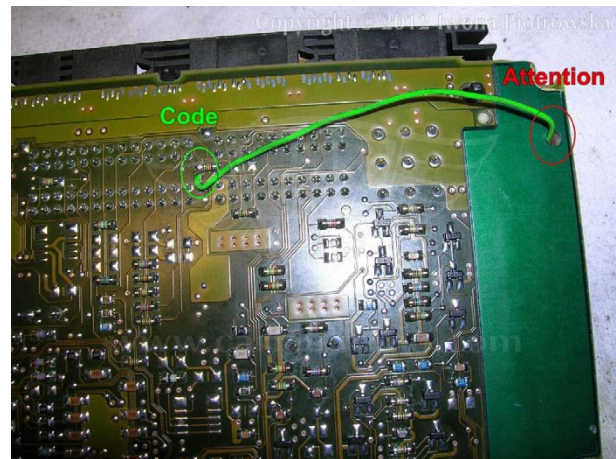
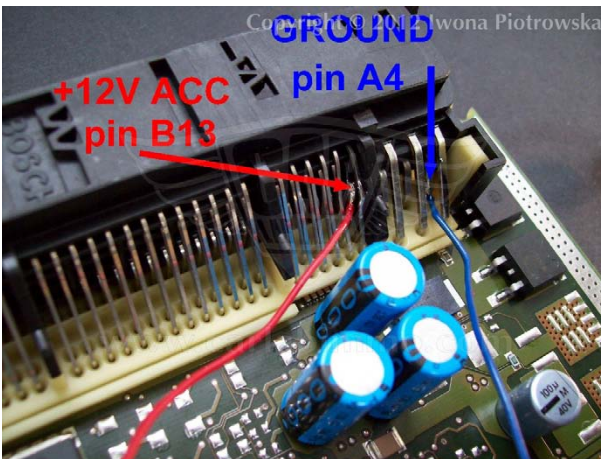
**Alfa, Lancia, Fiat 1.9 Jtd 2.4 Jtd
5-socket ECU**



In addresses from **1EA** to **1F9**, change these values into **00** in **24C04** memory



Connecting emulator to ECU



ACC B.13 pin

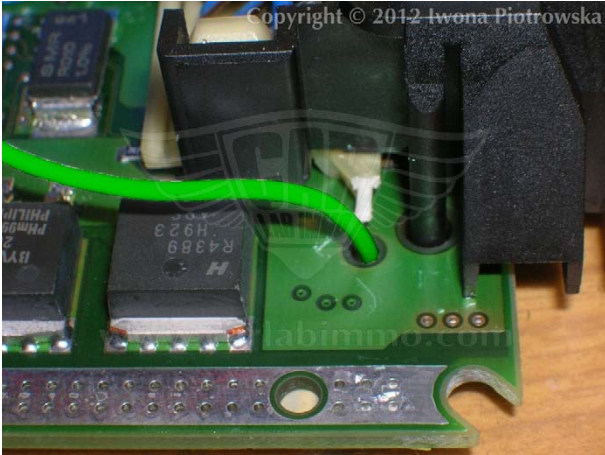
GND A.4 A.5 A.6 pin

Code C.13 pin (cut off)

ATTENTION!

When putting ECU back together, put a piece of cardboard on the wire making sure not to tighten it firmly in this area. Alternatively, break off a piece of clamp holder and drag the cable over to the other side

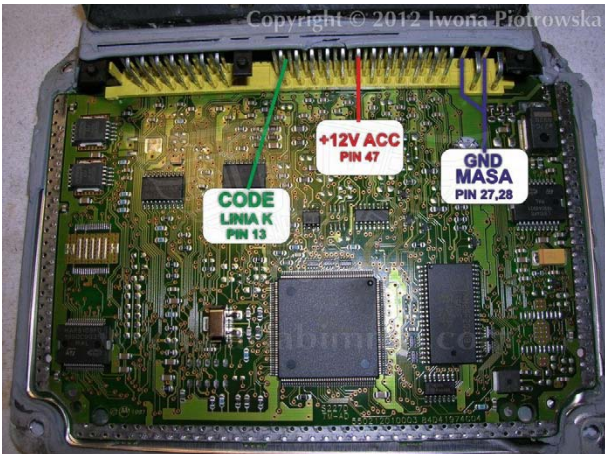
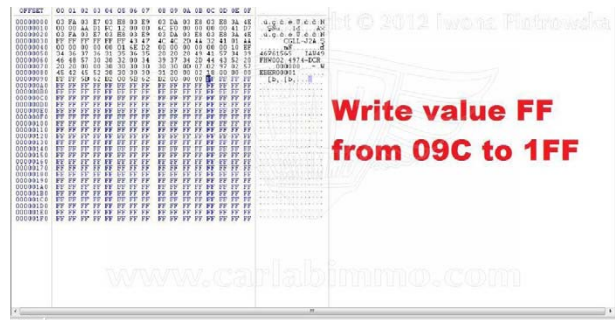
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IAW49F
Fiat Bravo 1.6 16V



Find memory **95040** in ECU
and then program it according to picture
below

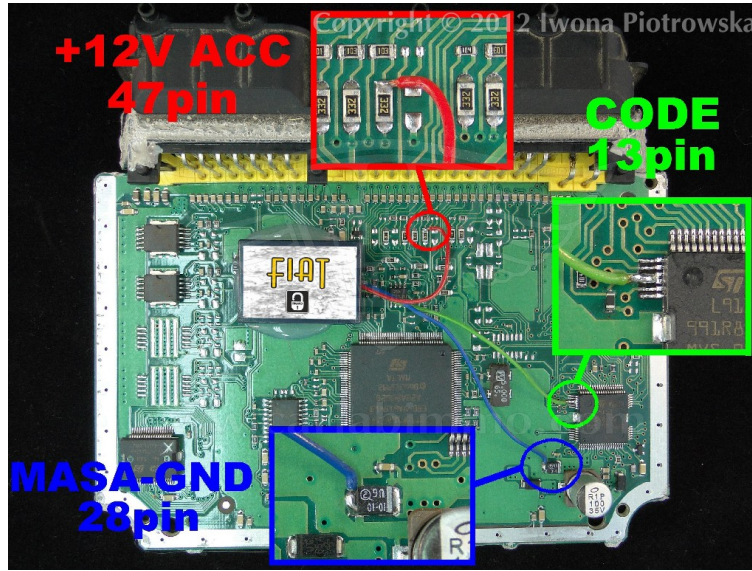


Connecting emulator to ECU

Cut off pin 13 from wiring in the car !!!

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IAW 4AF
Fiat Seicento, Panda 1.1 8V



Cut off pin 13 from wiring in the car !!!

Find memory **95160** in ECU
and then program it according to picture below

OFFSET	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00000000	DE	03	22	03	DE	03	F4	03	D4	03	A6	03	E8	03	E4	3A	W a . d . o . i . c . *
00000010	01	C1	48	30	98	06	08	22	48	03	98	08	00	00	78		011
00000020	DF	03	E2	03	DE	03	F4	03	D4	03	A6	03	E8	03	E4	3A	W a . d . o . i . c . *
00000030	34	41	46	32	30	38	35	40	50	45	30	36	31	33	47	44	4AF208MPEM1305
00000040	00	00	00	11	28	00	00	00	00	00	01	00	FF	10			E
00000050	35	31	37	38	32	35	34	37	20	20	20	43	41	57	34	41	51782647 IAW4A
00000060	46	48	57	34	30	37	06	32	30	42	38	57	48	48	20	20	FBV807 208V8H
00000070	20	21	00	00	34	41	46	53	32	20	00	07	C1	82	80	30	4ANS2 - A -
00000080	20	20	20	20	20	20	20	20	20	20	06	03	02	00	49	4D	IM
00000090	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
000000A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
000000B0	00	00	00	00	00	00	00	01	00	00	00	00	00	01	01	00	
000000C0	00	01	00	00	01	01	01	00	00	00	00	00	00	00	00	00	
000000D0	00	00	00	00	00	00	01	01	00	00	00	00	00	00	00	00	
000000E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000F0	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000100	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000110	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000120	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000130	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000140	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000150	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000160	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000170	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	40	9C	0000000000000000
00000180	CA	34	36	39	FF	98	47	98	54	9C	65	9C	82	9B	86	94	C5M G Cam, T8
00000190	73	98	08	94	32	94	9E	93	20	99	01	99	C7	57	95		0 - A - * - T - T - T -
000001A0	89	94	C1	92	82	97	C1	92	A9	94	F8	92	C2	93	DD	93	E A - A - 0 - 1 - 0 -
000001B0	20	94	28	99	32	94	CB	93	F8	92	F8	92	F8	92	F8	92	0 - * - 0 - 1 - 1 - 0 -
000001C0	50	94	69	98	00	92	5D	94	A3	94	F8	92	F8	92	F8	92	E - 1 - 1 - 1 - 1 - 0 -
000001D0	10	95	3E	94	8C	94	72	93	20	99	63	99	F8	98	97	98	* - 3 - 0 - * - 0 -
000001E0	A6	95	17	94	CB	97	4E	95	40	9C	40	9C	40	9C	40	9C	IM - E - 1 - 0 - 0 - 0 -
000001F0	48	9C	04	98	8C	94	8C	94	A1	83	00	00	00	00	00	00	Ia - 5A5A
00000200	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000210	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000220	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000230	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000240	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	

For coding :
from 090 to 0AF write FF .

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Lancia Kappa 2.0i 16V Turbo
0 261 203 792



ACC 37 or 27 pin

GND 14, 19, 24 pin

Code 55 pin



Connect immo line to **pin 55**.
Disconnect immo. Connect **A6** and **A5**
together.

**To have diagnosis, the immo line must
be made in the reset button.**

This device self-learns ECU code

Lancia Kappa 2.0i 20V
0 261 203 670



ACC 37 or 27 pin

GND 2, 14, 19, 24 pin

Code 55 pin

To have diagnosis, the immo line must be made in the reset button.
Connect **A6** and **A5** together.

This device self-learns ECU code

Lancia Kappa 2.4i 16V
0 261 203 669



Connect immo line to **pin 55**. Disconnect immo. Connect **A6** and **A5** together.
To have diagnosis, the immo line must be made in the reset button.

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ACC 27 pin

GND 19 pin

Code 55 pin

This device self-learns ECU code

Lancia Kappa 3.0i 24V
0 261 203 482



Connecting emulator to ECU

ACC 56 pin

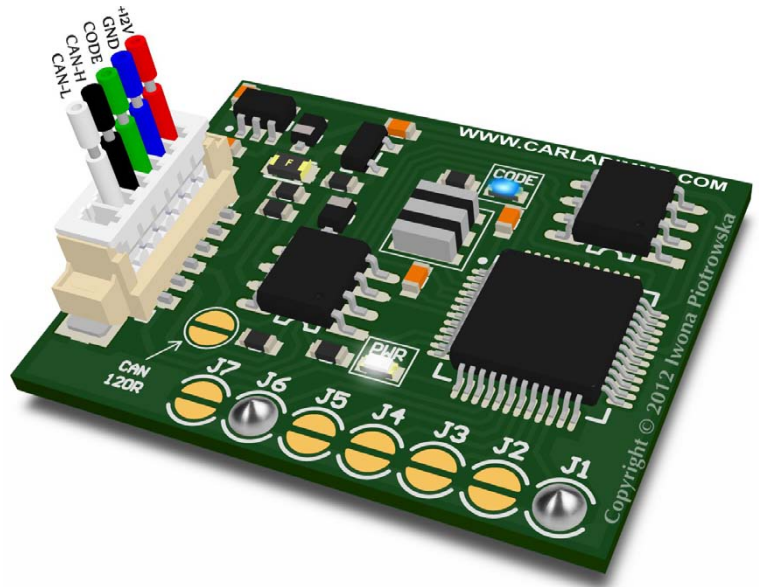
GND 55 pin

Code 88 pin

Fiat with CAN

In Universal Julie Emulator solder jumpers J1 and J6

Available as Universal Julie Emulator program no. 21

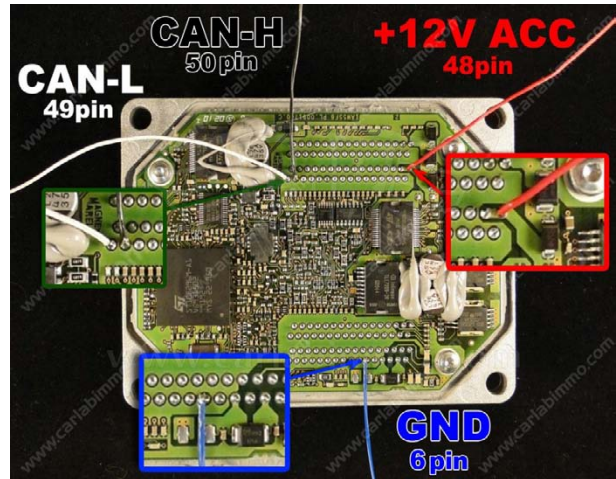


USE

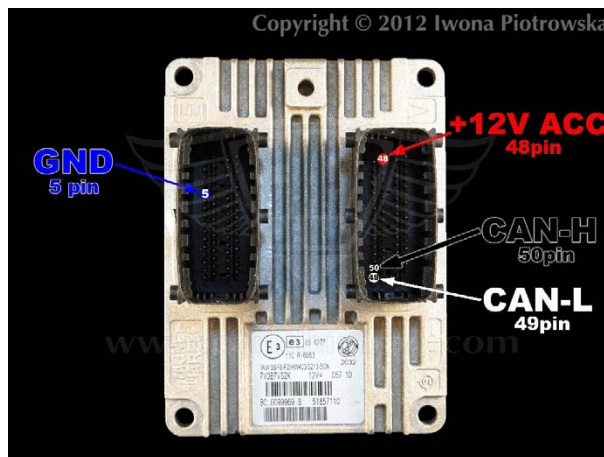
Fiat with CAN 5SF and 6F3 ECU



Connecting emulator to 5SF ECU



Connecting to ECU socket

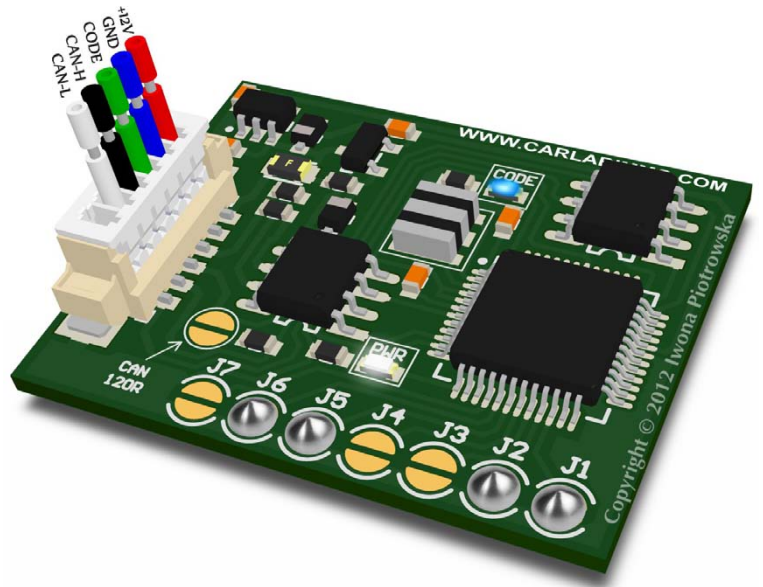


- +12V ACC 48 pin**
- GND 5 or 6 pin**
- CAN-L 49 pin**
- CAN-H 50 pin**

FSO Polonez

In Universal Julie Emulator
solder jumpers J1, J2, J5 and J6

Available as Universal Julie
Emulator program no. 22



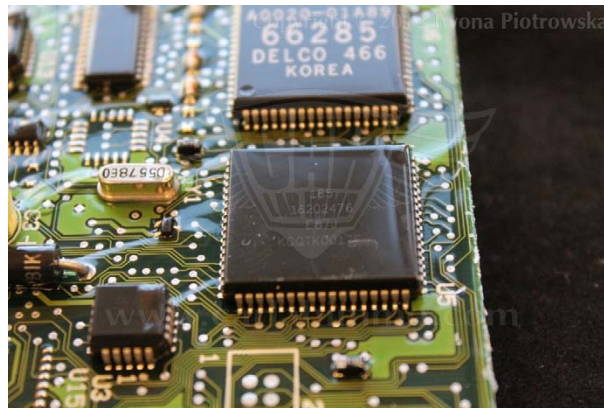
USE

FSO Polonez 1.6GSi



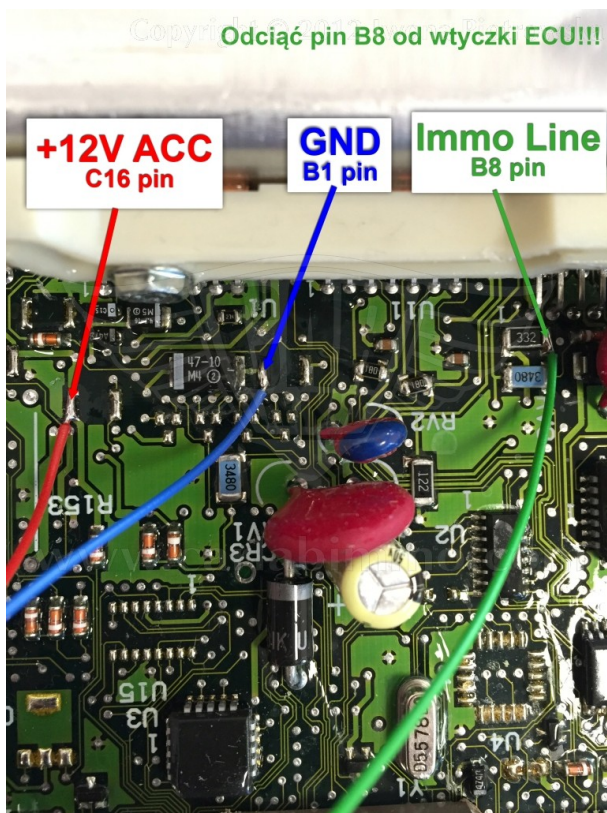
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DELCO DAFZ ECU



Find Motorola **HC11F1** processor in ECU

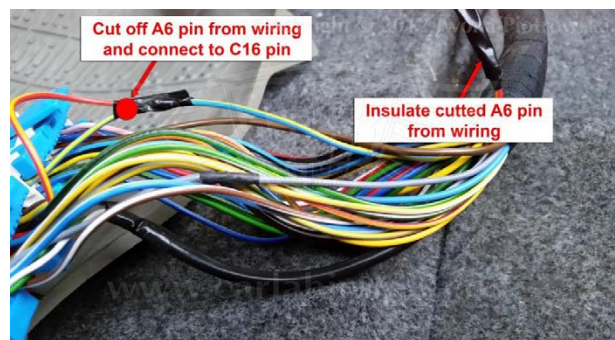
In the addresses from **120** to **121**, write **3E 62** values



Connecting emulator to ECU

- +12V ACC** red
- GND** blue
- Immo** green

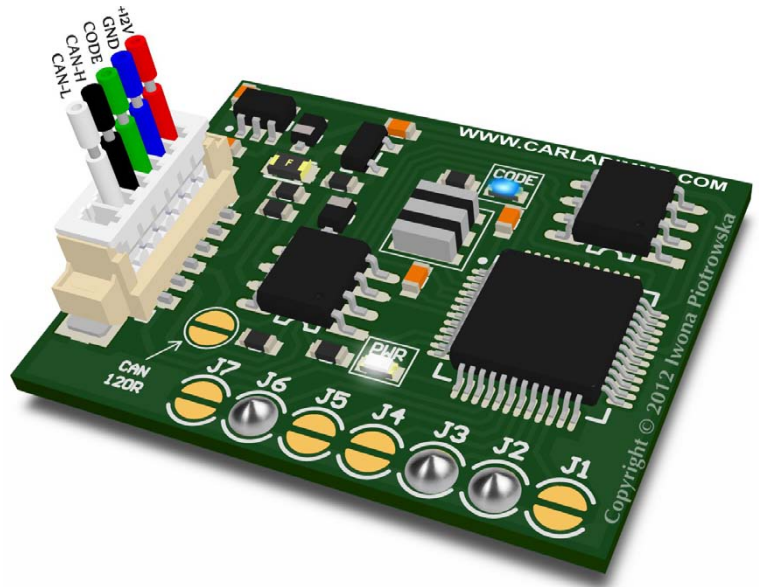
Cut off pin B8 from ECU plug!



Honda

In Universal Julie Emulator
solder jumpers J2, J3 and J6

Available as dedicated emulator or
Universal Julie Emulator program no. 23



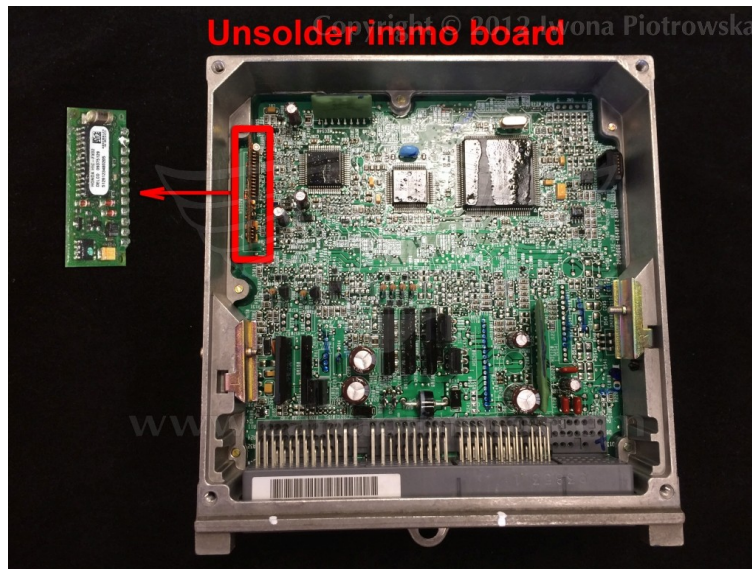
USE

Honda: Accord, CRV, Civic and other
(production year 1999 - 2002)

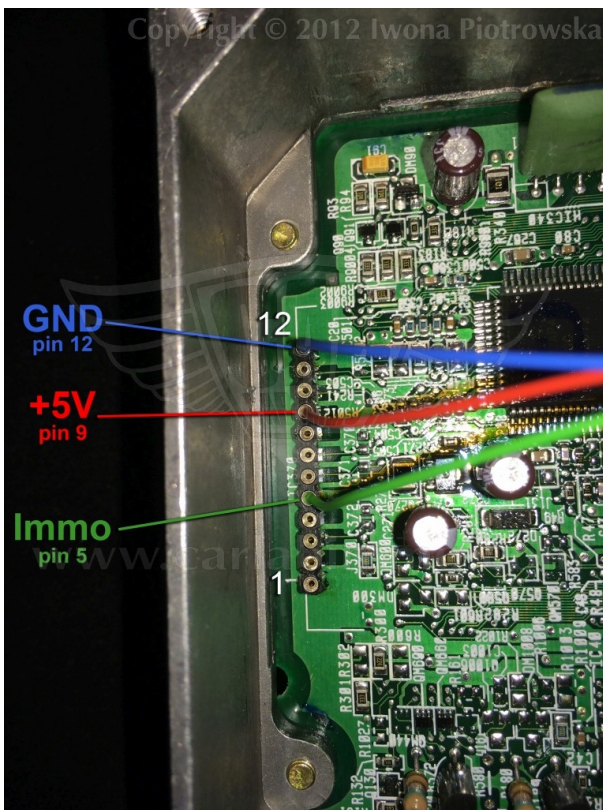


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The emulator only works with ECU that has got immo board equipped with 28-pin processor with a label



Unsolder this immo board as shown in the picture above



In the place of the immo board, solder in the emulator



Example connection diagram of **Honda emulator**

Example connection diagram of **Universal Julie emulator**



Before starting the car, disconnect the plug from immo box!!!



ECU Bosch M4.6.1
0 261 204 830

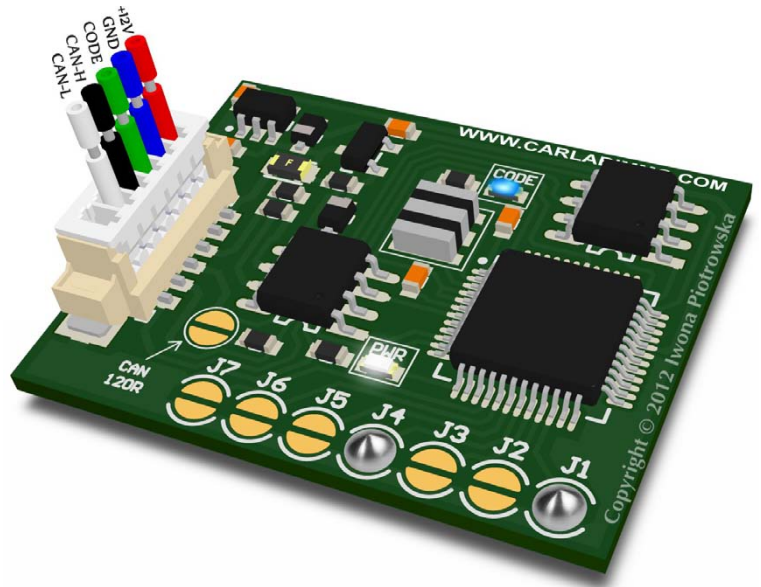
Honda Accord
1.6i 1999 year



Kia Sportage 2.0 TD

In Universal Julie Emulator
solder jumpers J1 and J4

Available as dedicated emulator or
Universal Julie Emulator program no. 24



USE

Kia Sportage 2.0 TD
ZEXEL ECU immo with remote control



ECU is located under the floor mat at the front of the passenger-side footwell.

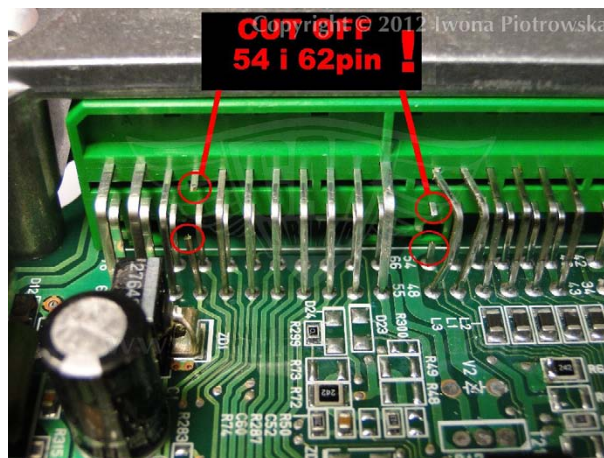
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Connecting emulator to ECU



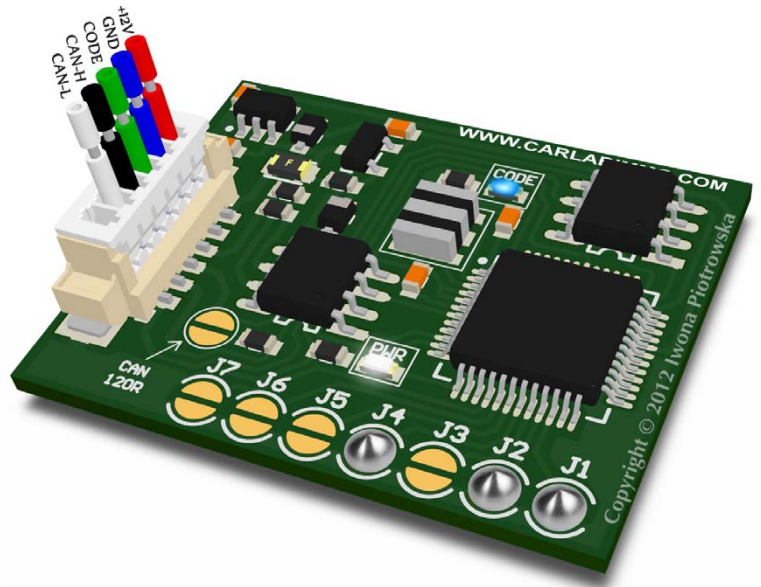
- Power supply red
- GND blue
- Immo green



Mercedes CR without CAN infrared

In Universal Julie Emulator
solder jumpers J1, J2 and J4

Available as dedicated emulator or
Universal Julie Emulator program no. 25



USE

INFRARED IMMO
with 12-pin module + 2-pin CAN
where only CAN L is connected (there is no CAN H).
Green and red LED flash in the mirror.

Lucas 55 pins 1-socket ECU 2.2 Diesel

SIEMENS hybrid ECU
1.8 2.0 2.3 gasoline

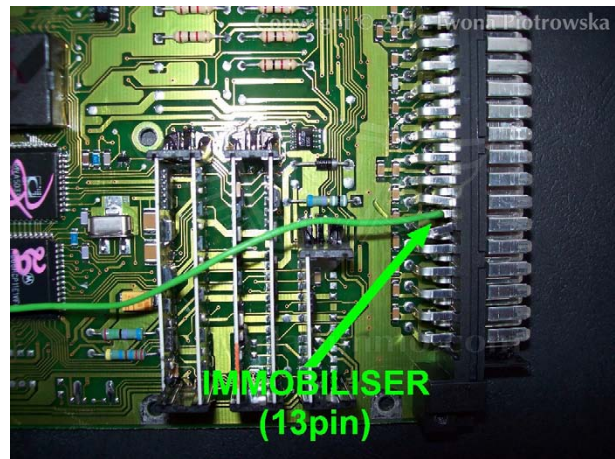
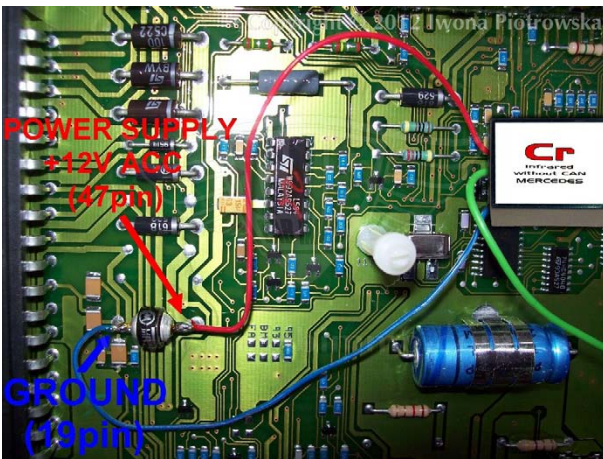
BOSCH hybrid ECU
2.0 gasoline

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Lucas 55 pins 1-socket ECU 2.2 Diesel
Mercedes E-class W210



Connecting emulator to ECU



ACC **47 pin**

GND **19 pin**

Immo **13 pin**
white with a green stripe

Cut off pin 13 in the ECU and pins 5 and 6 in the immo module. Then, connect emulator. In the mirror and in the door handle area LEDs do not flash.

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SIEMENS hybrid ECU 1.8 2.0 2.3 gasoline

Mercedes C-class W202 1.8 gasoline
SIEMENS hybrid ECU no. 018 545 41 32



Connect emulator instead of infrared immo with 12-pin module + 2-pin CAN, which is located under the floor mat at the front of the passenger-side footwell.



GND and ACC in the 12-pin plug of immobiliser:

- ACC 9 pin
- GND 1 pin
- Immo Connect it to 2 pin plug of immobiliser

Cut off pin 5 and 6 in immo module, then LEDs do not flash in the mirror.

Mercedes Vito 2.0 and 2.3 gasoline SIEMENS hybrid ECU

2-socket ECU with vacuum hose,
9-pin immo, remote control locking and unlocking.

Connecting in place of original immobiliser

- ACC** 7 pin - black with grey strap
- GND** 2 pin - brown
- Immo** 5 pin - blue with violet strap

BOSCH hybrid ECU 2.0 gasoline

Mercedes C-class W202 2.0 gasoline
BOSCH hybrid ECU no. 0 261 200 614



GND and ACC in the 12-pin plug of immobiliser

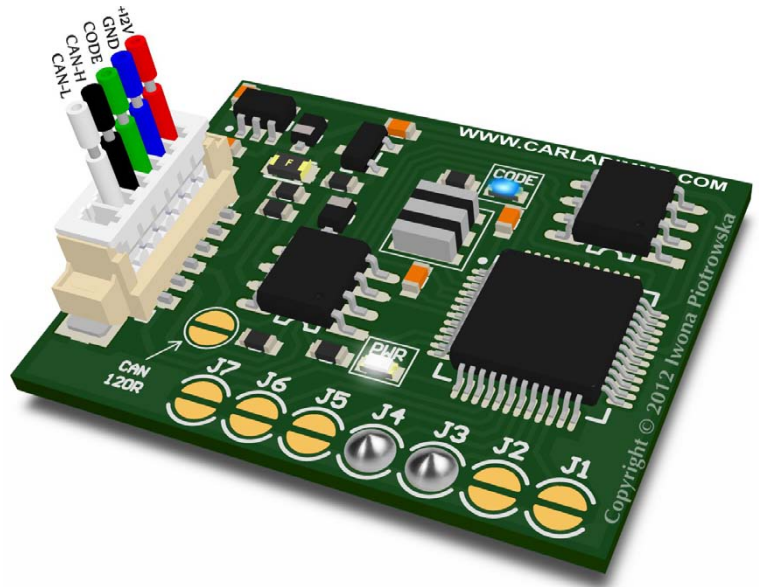
- ACC** 9 pin
- GND** 1 pin
- Immo** Connect it to 2 pin plug of immobiliser

Cut off pin 5 and 6 in immo module, then LEDs do not flash in the mirror

Mercedes CR1 with CAN WSP

In Universal Julie Emulator
solder jumpers J3 and J4

Available as Universal Julie
Emulator program no. 26



USE

Vito 2.2 Cdi
5-socket ECU

A-class 1.7 Cdi
5-socket ECU

EDC 1-socket ECU
2.5TD 2.9TD 3.0TD
with mechanical and electronic ignition switch

Bosch ECU with HC11E9

E-class Lucas 4-socket ECU
with mechanical and electronic ignition switch

A-class VDO MSM ECU
1.4 1.6 1.9 gasoline

When emulator is connected, disconnect CAN from original immo!

A-class VDO MSM ECU
1.4 1.6 1.9 gasoline



Vito 2.2 Cdi 5-socket ECU



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Vito 2.2 Cdi 5-socket ECU



In Mercedes Vito 2.2 Cdi, the starter does not turn, there is **START ERROR** on the instrument cluster

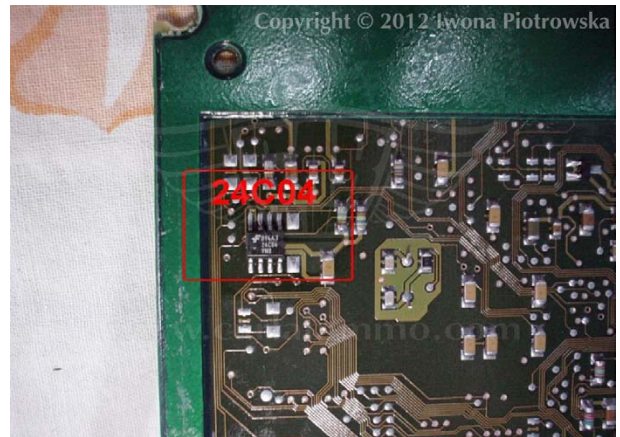
ECU is located on the passenger side



Connecting emulator to ECU

- ACC 2.13 pin**
- GND 1.04 1.05 1.06 pin**
- CAN-L 2.12 pin**
- CAN-H 2.11 pin**

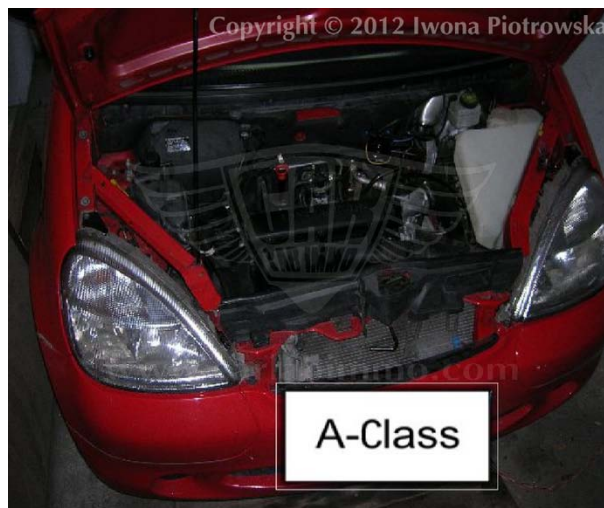
Find **24C04** memory



In address **1EE** to **1F9**, enter values **2A 4E 00 00 FF FF 00 9C D4 13 56 01**

Disconnect CAN from WSP!!!

**A-class 1.7 Cdi
5-socket ECU**



In Mercedes A-class 1.7 Cdi, the starter does not turn,
there is **START ERROR** on the instrument cluster

ECU is located under the bonnet on the left side behind the engine covered with plastic

Connecting emulator to ECU

ACC **2.13 pin**

GND 1.04 1.05 1.06 pin

CAN-L **2.12 pin**

CAN-H **2.11 pin**

Find **24C04** memory



In the address **1EE** to **1F9** enter values **2A 4E 00 00 FF FF 00 9C D4 13 56 01**

Disconnect CAN from WSP!!!

**EDC 1-socket ECU
2.5TD 2.9TD 3.0TD
with mechanical and electronic ignition switch**

C-class 2.5 TD
Sprinter 2.9 TD
E-class 3.0 TD



In early 1-socket ECU types, you need to find **24C02** memory marked as **B58** or **24C04** memory

In address **38** and **39** write **2A 4E** values and
in address **3F** to **42** write **9C D4 13 56** values

Connecting emulator to EDC 1-socket ECU

CAN H and CAN L from the choke.
GND and power from diode.



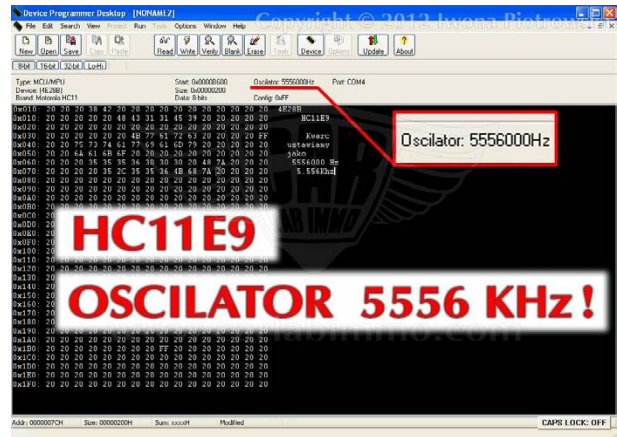
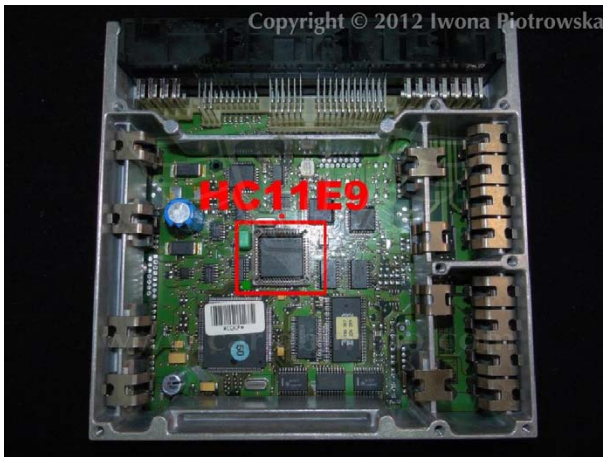
If there are problems to start the car, add ACC onto pin 13 of ECU
(take it from second leg of diode). Then, cut off pin 13 from the ECU plug

Disconnect CAN from WSP!!!

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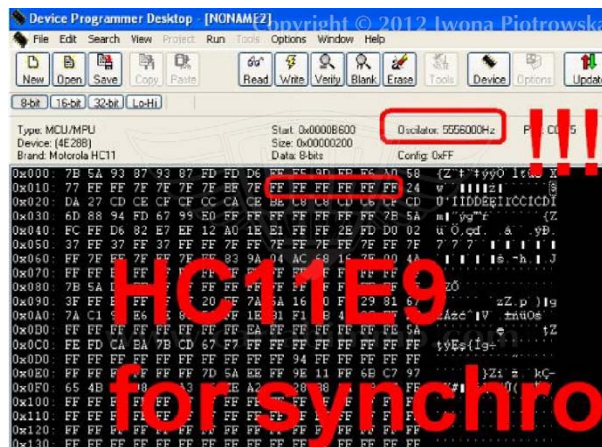
Bosch ECU with HC11E9

There is Motorola **4E28B HC11E9 52PLCC** in ECU



Before reading content, set oscillator at 5556000Hz!

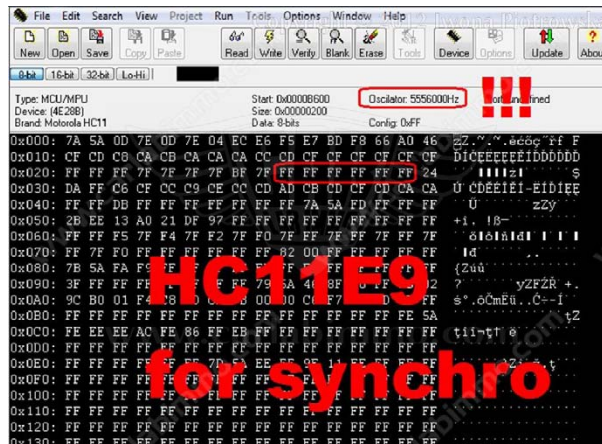
1st CHANGE



In addresses from **019** to **01E** (ETL 619 to 61E), write **FF** values

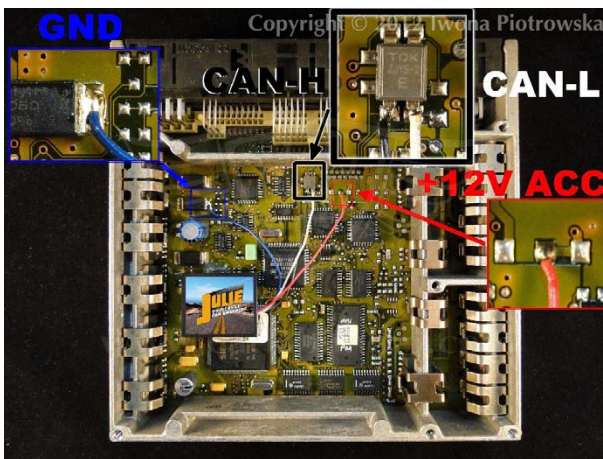
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2nd CHANGE



In addresses from **029** to **02E** write **FF** values

Connecting emulator to ECU



- +12V ACC** **A2 pin**
- GND** **A3 pin**
- CAN-L** **D12 pin**
- CAN-H** **D11 pin**

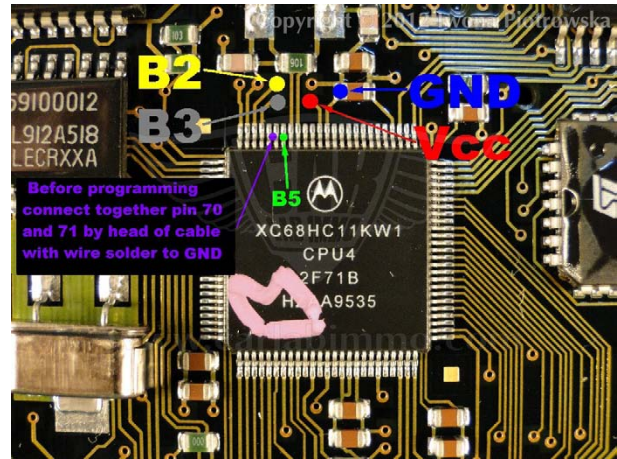
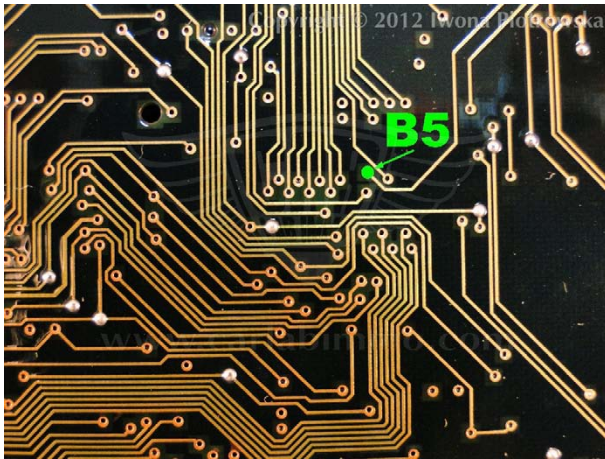
After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

**E-class Lucas 4-socket ECU
with mechanical and electronic ignition switch**

Mercedes E-class 2.0 diesel 1996
Lucas A0195459432 ed013 sw25.96 fd30.96

ECU is located in the engine compartment on the passenger side

Motorola **HC11KW1** quartz **8MHz** – connection of **X-Prog** programmer to Motorola

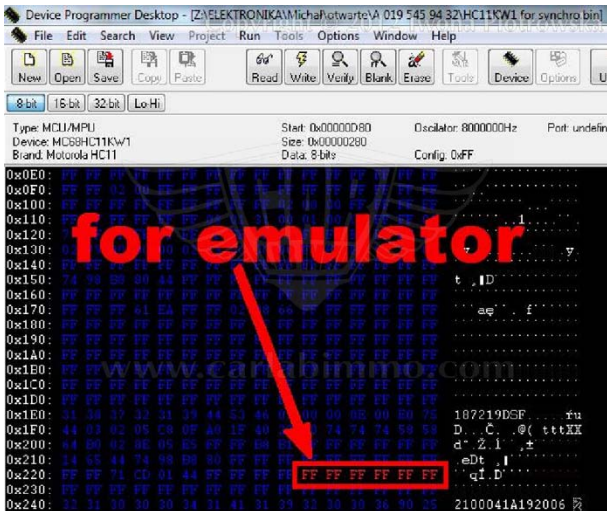


Before a getting connection to processor you have to connect pin 70 and 71 together with a needle.
Solder the wire to the needle that you then connect to GND.

pin 63	VSS ground	GND
pin 64	VDD +5V	A3 pin
pin 69	reset	B5
pin 70	Mod B to GND	B4
pin 71	Mod A to GND	GND
pin 72	RXT	B3
pin 73	TXD	B2

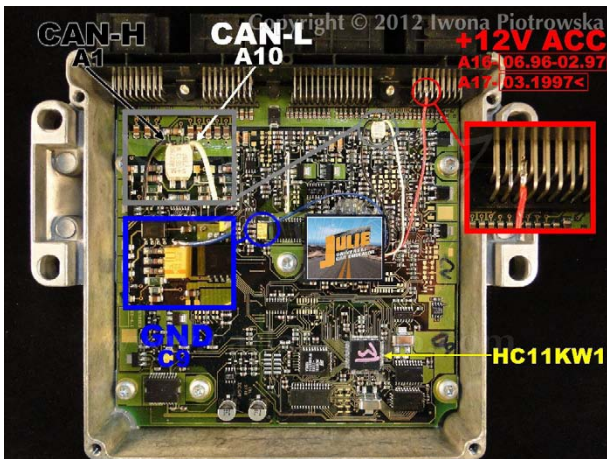
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Change to **HC11KW1** processor



In address from **22A** to **22F** write **FF** value

Connecting emulator to ECU



- +12V ACC A16 pin**
- GND C9 pin**
- CAN-L A10 pin**
- CAN-H A1 pin**

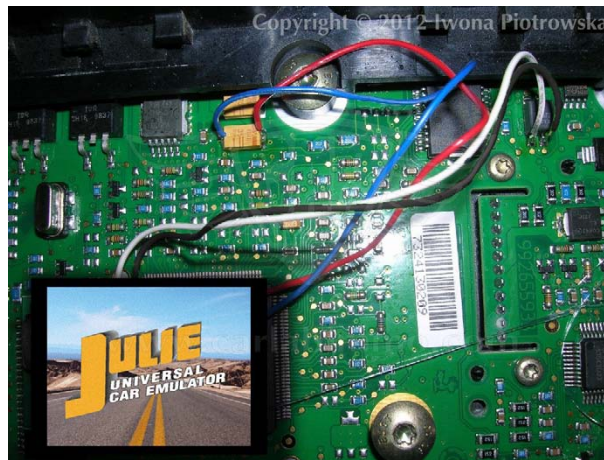
After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Disconnect CAN from WSP!!!

A-class VDO MSM ECU 1.4 1.6 1.9 gasoline



ECU is located on the air delivery pipe together with with Air Mass Flow Sensor

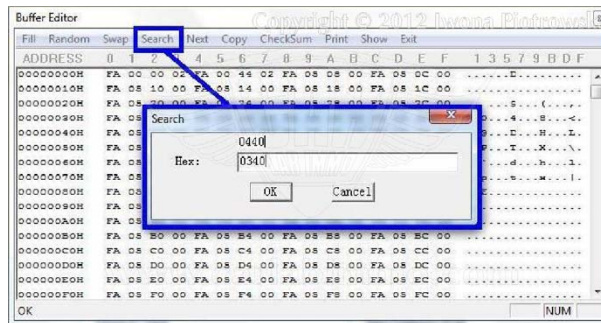


Connecting emulator to ECU

- +12V ACC** red
- GND** blue
- CAN-L** white
- CAN-H** black

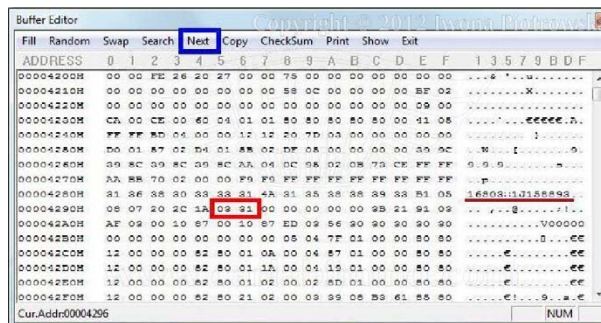
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To read and make changes to memory, use **Wellon** programmer



Once **29F200** (44pin) flash memory is read, write **03 40** (or **04 40**) value in search window

All **03 40** (or **04 40**) values which you will find under chassis number, change into **03 01** (or **04 31**)



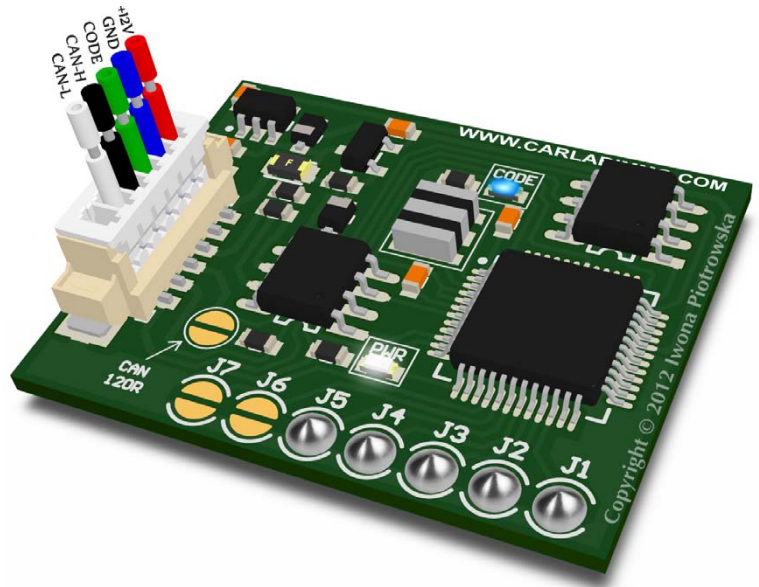
After soldering, you carry out personalisation with the **Star Diagnosis**.

Disconnect CAN from WSP!!!

Mercedes CR1 with CAN EZS

In Universal Julie Emulator
solder jumpers J1, J2, J3, J4 and J5

Available as Universal Julie
Emulator program no. 27



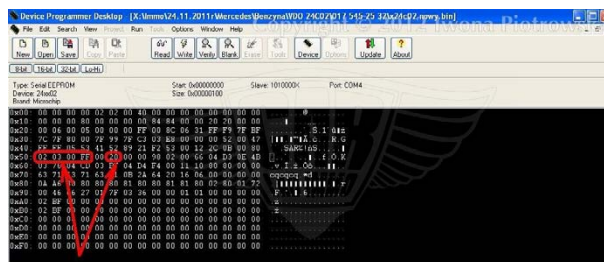
USE

Mercedes 2-socket (white) VDO ECU
with memory 24C02



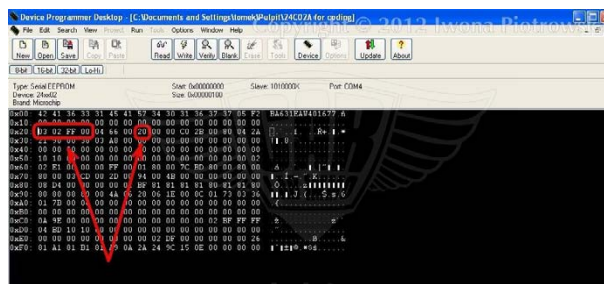
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Find **24C02** eeprom in ECU



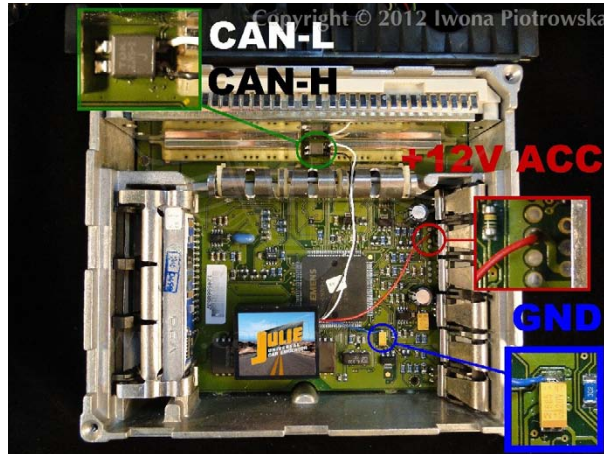
FOR CODING

In the addresses from **050** to **053** write **02 03 00 FF** values, and in address **055** write **20** value in **24C02** eeprom



FOR CODING

or in addresses from **020** to **023** write **02 03 00 FF** values, and in address **027** write **20** value in **24C02** eeprom



Connecting emulator to ECU

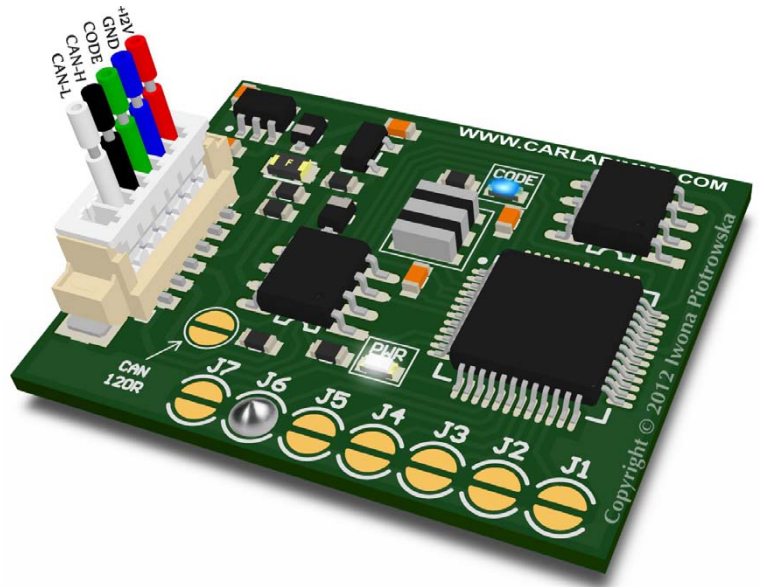
- +12V ACC 39 pin
- GND 33 pin
- CAN-L from choke
- CAN-H from choke

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes CR1 with CAN infrared

In Universal Julie Emulator
solder jumpers J6

Available as Universal Julie
Emulator program no. 28



USE

**Mercedes 2-socket (black) VDO ECU
with X24C01 memory**

**Mercedes 2-socket (yellow) VDO ECU
with X24C02 memory**

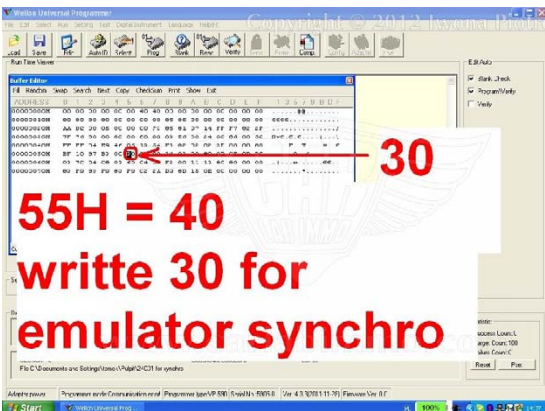
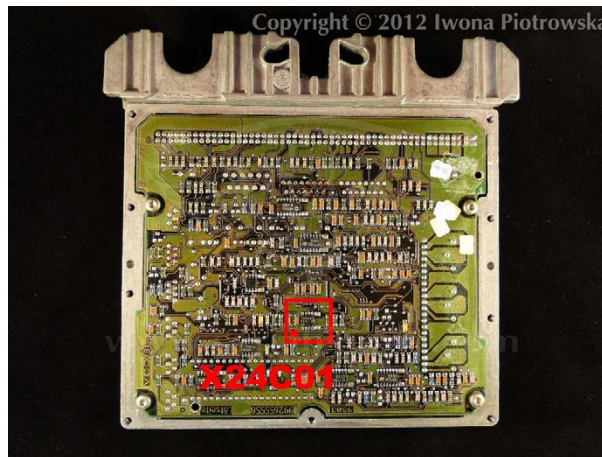
**Mercedes 2-socket Bosch ECU
with B58 (24LC02) memory**

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Mercedes 2-socket (black) VDO ECU
with X24C01 memory

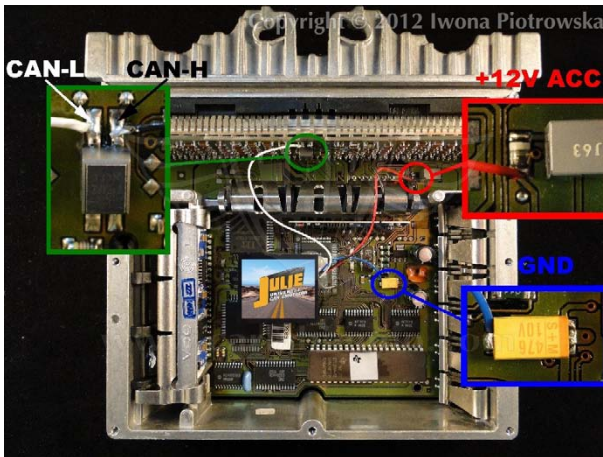


Find **X24C01** eeprom



In address **055** write **30** value

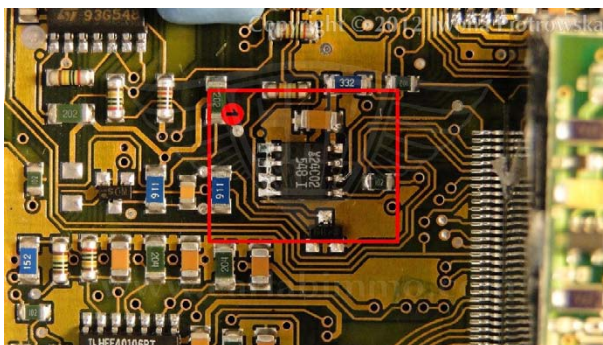
Connecting emulator to ECU



- +12V ACC** 39 pin
- GND** 33 pin
- CAN-L from choke
- CAN-H from choke

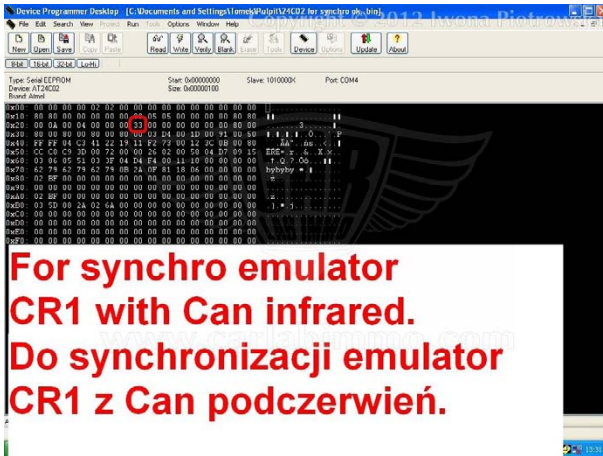
After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes 2-socket (yellow) VDO ECU with X24C02 memory



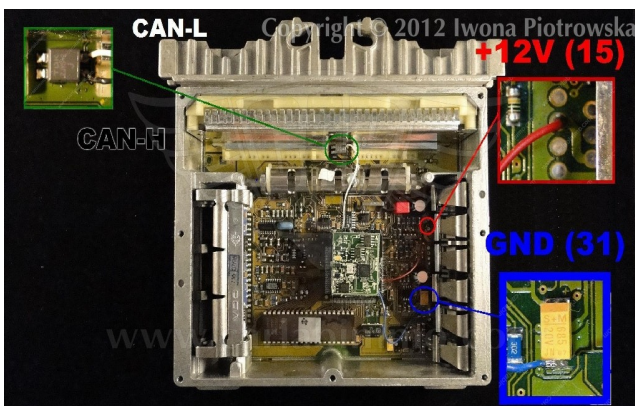
In the ECU find **X24C02** eeprom

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In address **027** write **33** value in **X24C02** eeprom

Connecting emulator to ECU

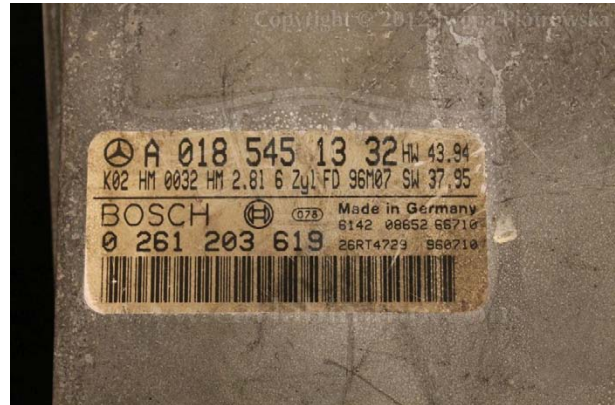


- +12V ACC** 39 pin
- GND** 33 pin
- CAN-L from choke
- CAN-H** from choke

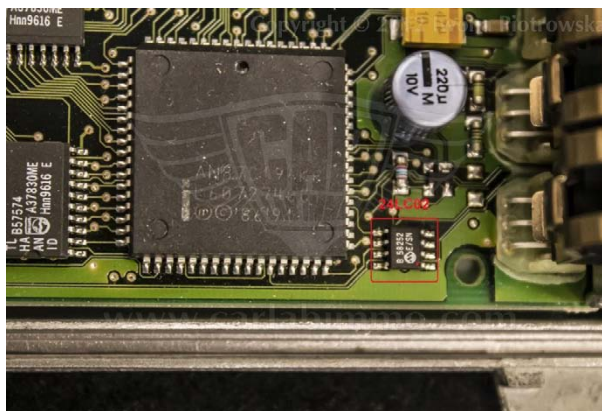
After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

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Mercedes 2-socket Bosch ECU with B58 (24LC02) memory



In the ECU find **B58 (24LC02)** eeprom



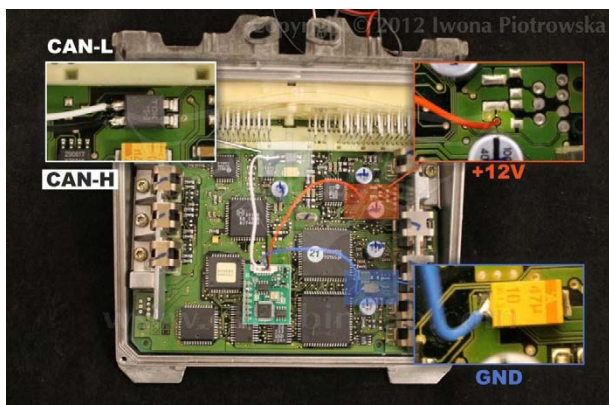
```
CEPHEX  90 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 05 AA 03 74 83 8C 00 00 00 00 00 00 00 00 00 00
00000001 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000002 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000003 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000004 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000005 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000006 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000007 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000008 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000009 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000B 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000D 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000E 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0000000F 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

Write value 33 in address 01A

www.carlabimmo.com

In address **01A** write **33** value in **24LC02** eeprom

Connecting emulator to ECU



+12V ACC 40 pin

GND 33 pin

CAN-L from choke

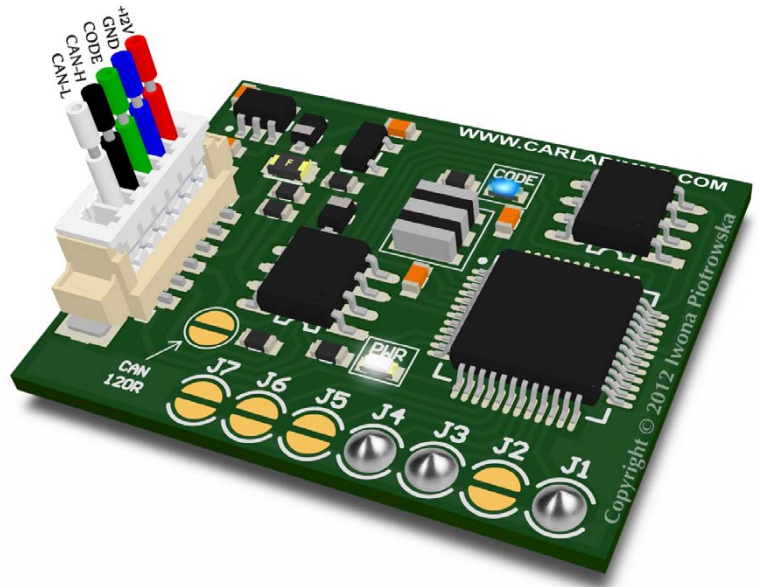
CAN-H from choke

After connecting the emulator, you need to carry out personalization with **HHT** or **Star Diagnosis** diagnostic tools. After starting the engine, you must run the car for 60 seconds for coding to be completed.

Mercedes CR2 with CAN WSP

**In Universal Julie Emulator
solder jumpers J1, J3 and J4**

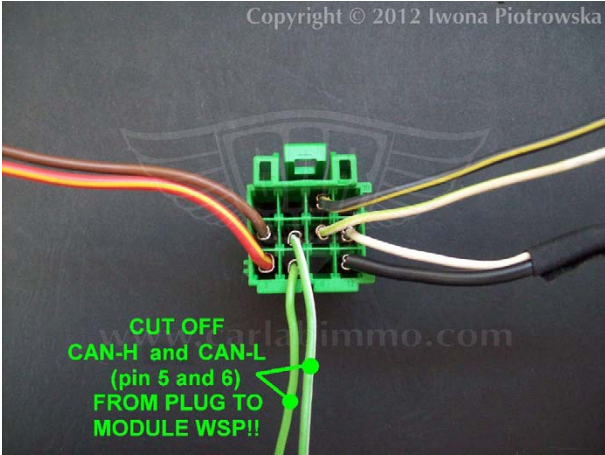
Available as Universal Julie
Emulator program no. 29



USE

**Sprinter 2.2 Cdi and 2.7 Cdi
ML 2.7 Cdi 5-socket – automatic start
Also suitable for 2.7 and 3.2 with electronic ignition switch – automatic start**

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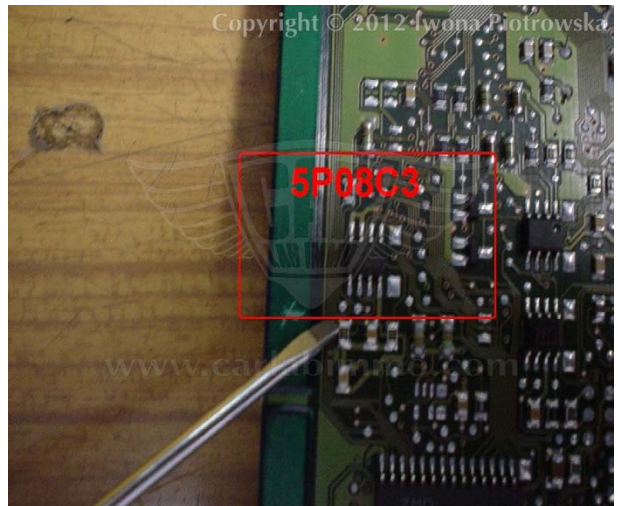
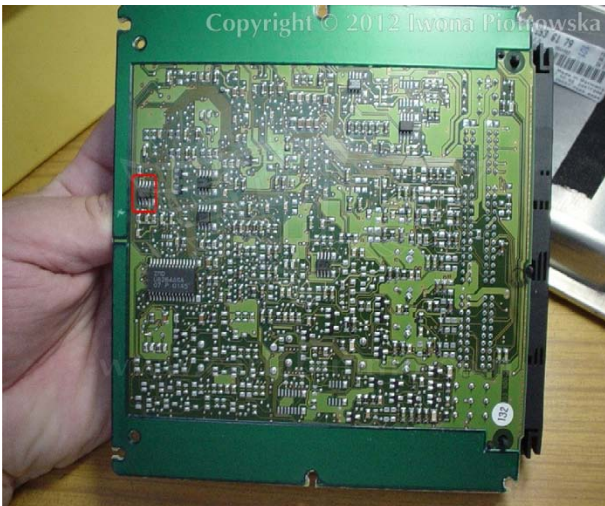


When emulator is connected, disconnect CAN from original immo!

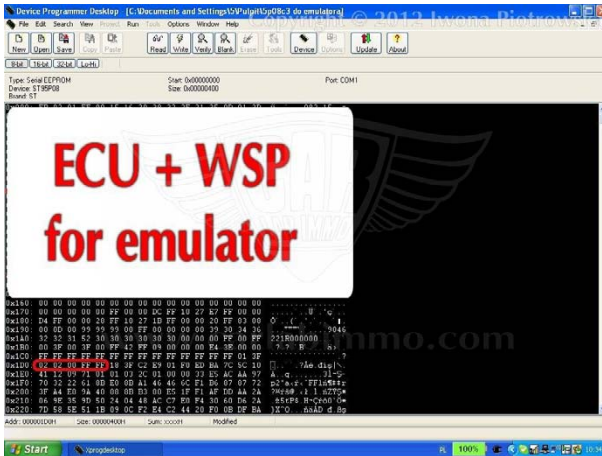
Connecting emulator to ECU



Find **5P08C3** memory

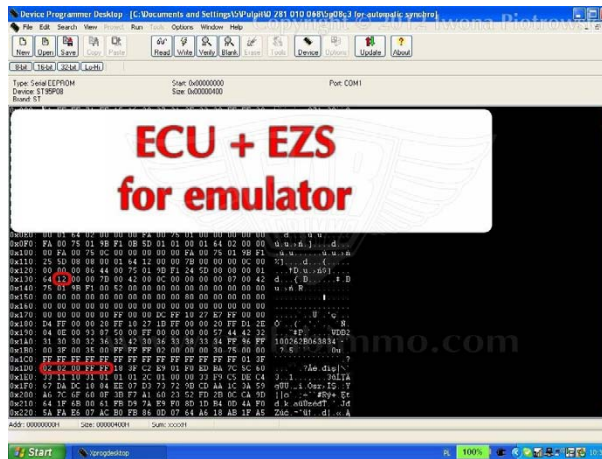


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In addresses from **1D0** to **1D4** write **02 02 00 FF FF** values that will start the car automatically

If you have an electronic ignition switch, the following changes should be made to **5P08C3** memory

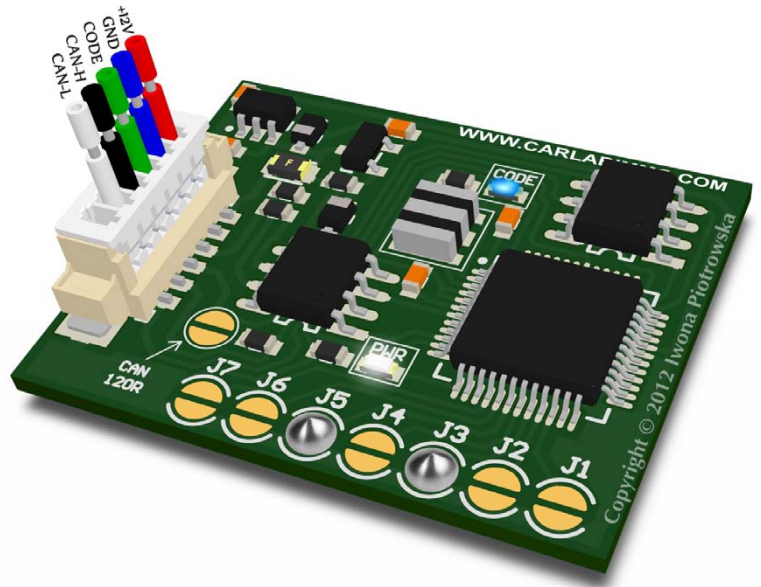


In address **131** write **12** value and from **1D0** to **1D4** write **02 02 00 FF FF** values

Mercedes ESL – steering wheel column lock emulator

In Universal Julie Emulator
solder jumpers J3 and J5

Available as Universal Julie
Emulator program no. 30



Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug before connecting the device.

It does not replace the new steering locks with NEC!



Type 1 ESL
W202, W208, W210



Type 2 ESL

W203, W209, W211, Vito 639, W906 (Sprinter II, VW Crafter)

It works with ignition switches numbered



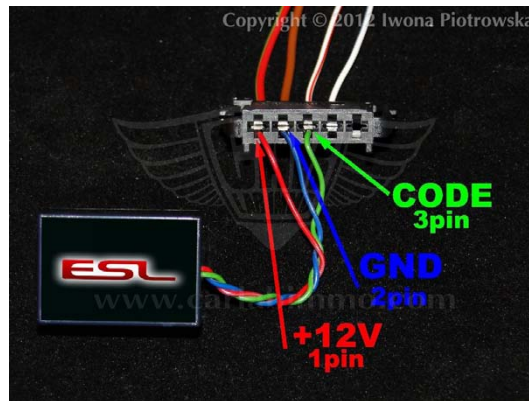
- | | |
|---------------|---------------|
| 208 545 00 08 | 208 545 01 08 |
| 208 545 02 08 | 208 545 03 08 |
| 210 545 00 08 | 210 545 01 08 |
| 210 545 02 08 | 210 545 03 08 |



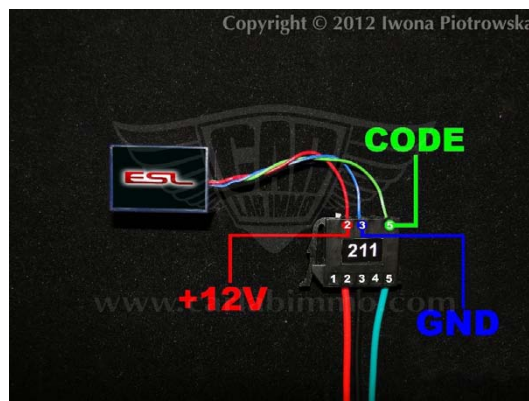
639 545 05 08

It self-learns code of the electronic ignition–plug and play

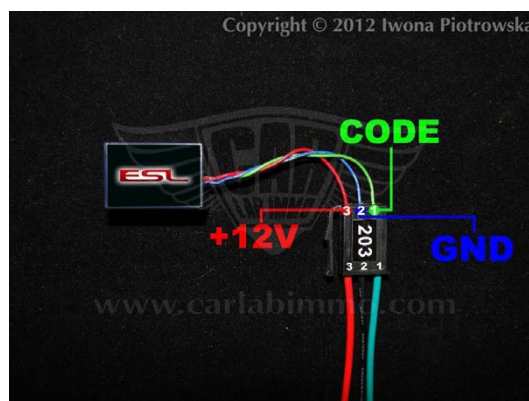
Connecting to ESL:
Mercedes-Benz W202, W208, W210



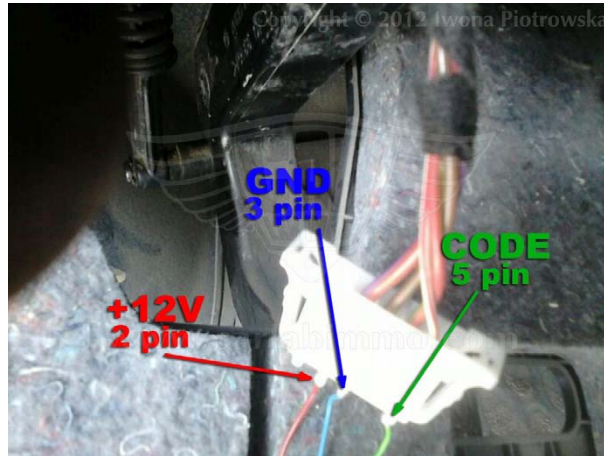
Connecting to ESL:
Mercedes-Benz W209, W211



Connecting to ESL:
Mercedes-Benz W203



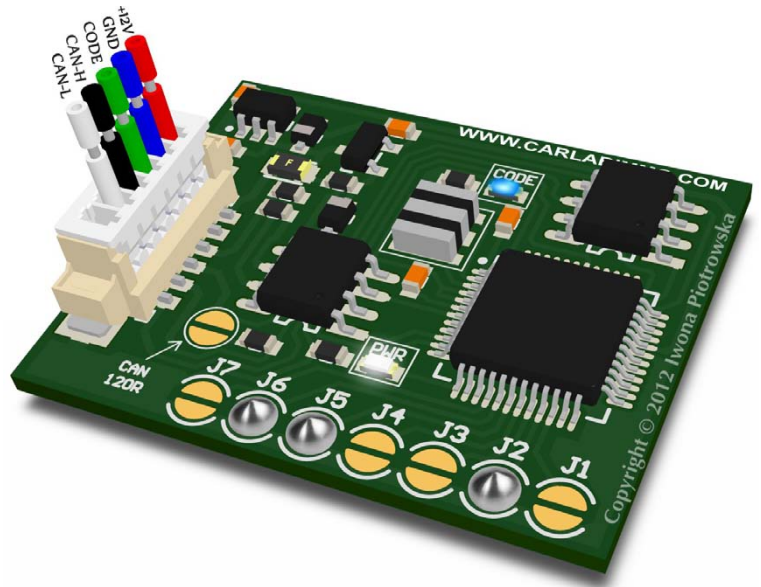
**Connecting to ESL:
Mercedes-Benz Vito 639**



Mercedes ESL 2 – steering wheel column lock emulator

In Universal Julie Emulator
solder jumpers J2, J5 and J6

Available as dedicated emulator or
Universal Julie Emulator program no. 31



Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug
before connecting the device.

ESL 2 emulator enables you to verify correct functioning of EZS

It works with ignition switches numbered



- A 906 545 01 08
- A 906 545 64 08
- A 906 545 49 08
- A 906 545 40 08



- 639 545 01 08
- 639 545 05 08
- 203 545 05 08
- 203 545 01 08
- 203 545 03 08

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- 208 545 00 08 208 545 01 08
- 208 545 02 08 208 545 03 08
- 210 545 00 08 210 545 01 08
- 210 545 02 08 210 545 03 08

It self-learns code of the electronic ignition–plug and play



ESL

W906 (Sprinter II, VW Crafter), W639, W211, W209, W203

ESL

W202, W208, W210



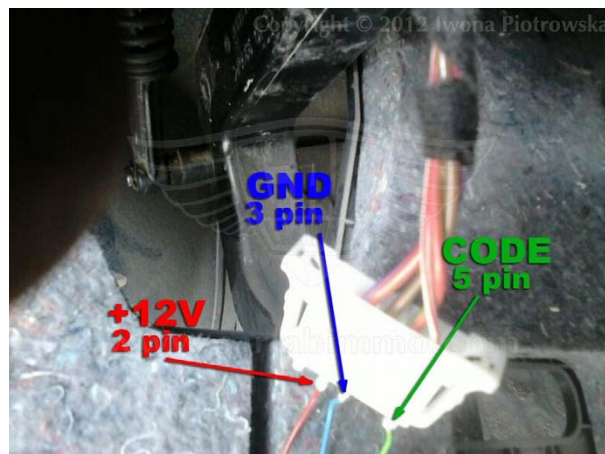
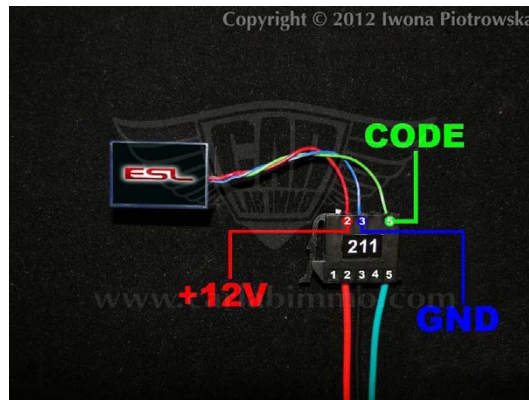
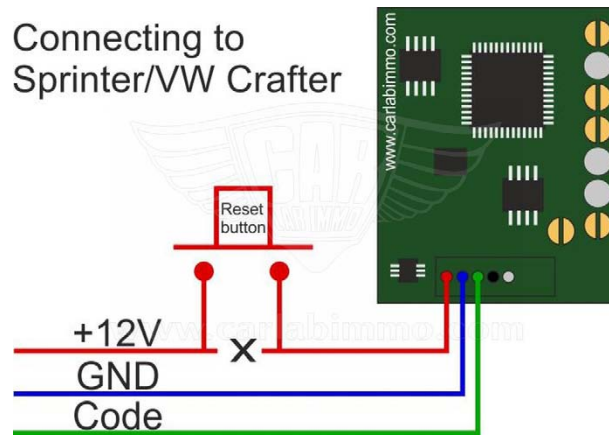
Connecting to ESL:

W906 (Sprinter II, VW Crafter), W639, W211, W209, W203

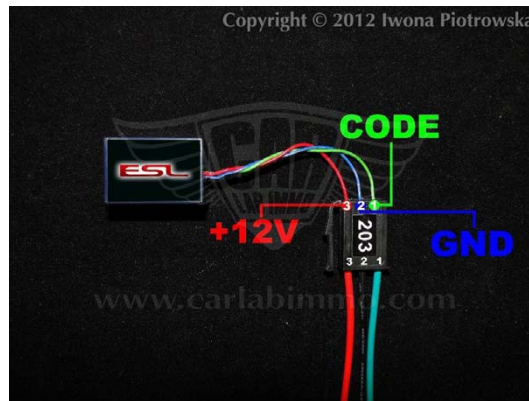
Attention!

If the ESL plug is missing +12V ACC, then you connect the emulator to +12V VCC. For this purpose, it is best to build a reset button at one point of +12V VCC wire.

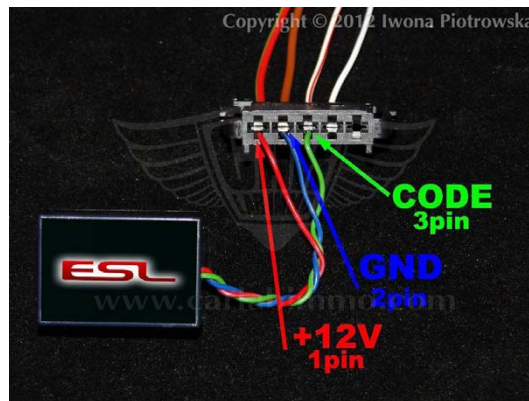
Connecting to Sprinter/VW Crafter



**Connecting to ESL:
Mercedes-Benz W203**



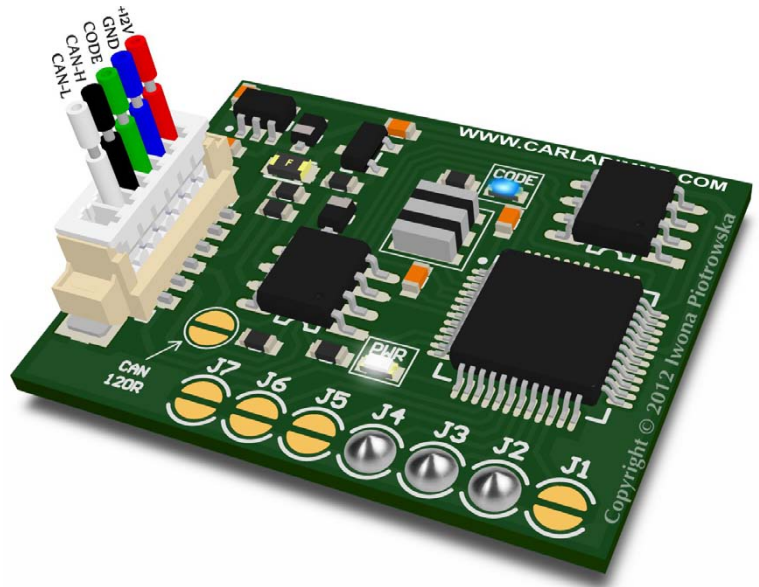
**Connecting to ESL:
Mercedes-Benz W202, W208, W210**



Nissan NATS 4 and 5

In Universal Julie Emulator
solder jumpers J2, J3 and J4

Available as dedicated emulator or
Universal Julie Emulator program no. 32



USE

ECU from 2000 to 2002 - NATS 4 and 5 immo

2.2 2.7 diesel 5-socket ECU with 24C04 memory

1.5 gasoline Hitachi MEC with 93C46 and 93C56 memory

1.8 and 2.0 gasoline Hitachi MEC with 93C56 memory

1.4 gasoline Bosch with 24LC02 memory

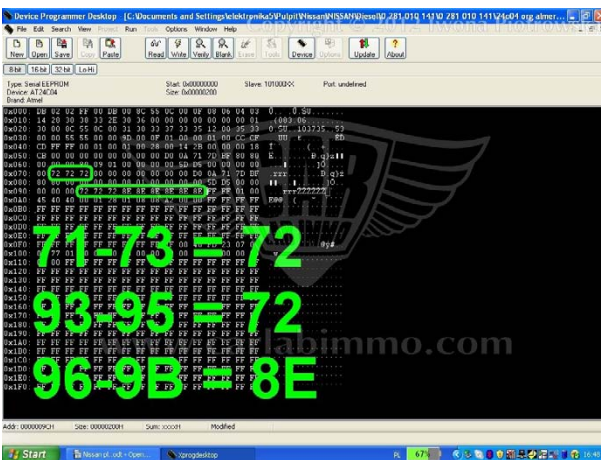
Models: Almera, Almera Tino, Micra, Primera, Terrano

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2.2 2.7 diesel 5-socket ECU with 24C04 memory

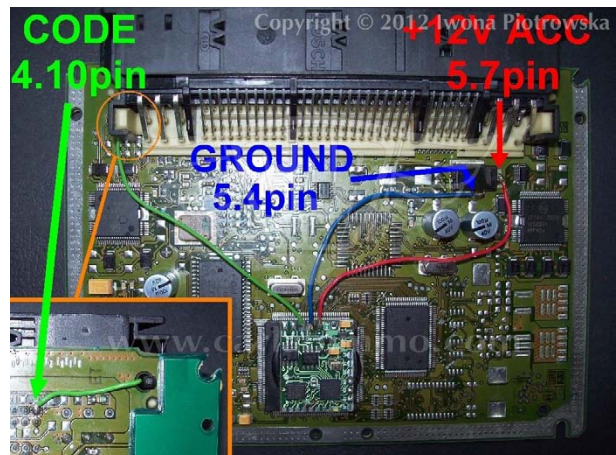


Find **24C04** eeprom memory

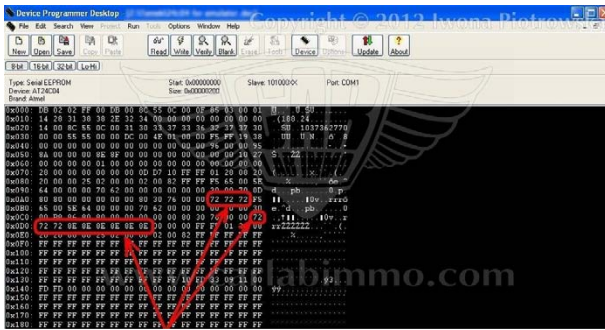


In addresses
 from **071** to **073** write **72** value
 from **093** to **095** write **72** value
 from **096** to **09B** write **8E** value

Connecting emulator to ECU

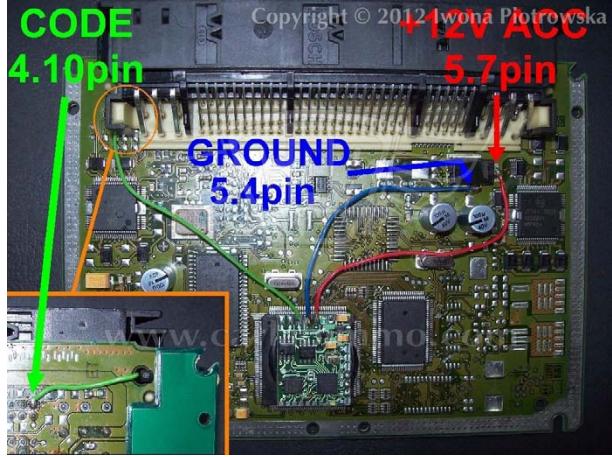


2.7 diesel 5-socket ECU with 24C04 memory

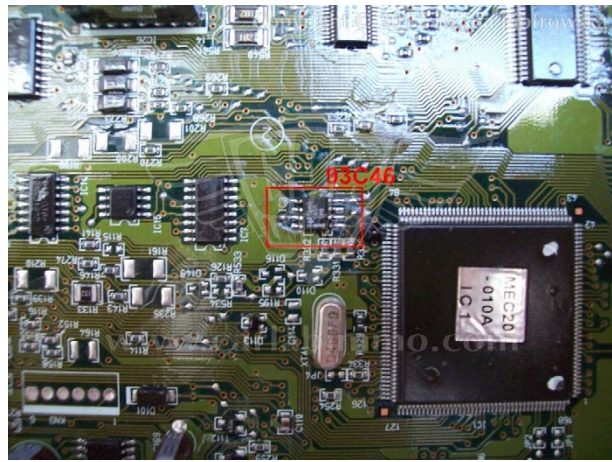


In addresses
 from **0AC** to **AE** write **72** values
 in **0CF** write **72** value
 from **0D0** to **0D7** write **72 72 8E 8E 8E**
8E 8E 8E values

Connecting emulator to ECU

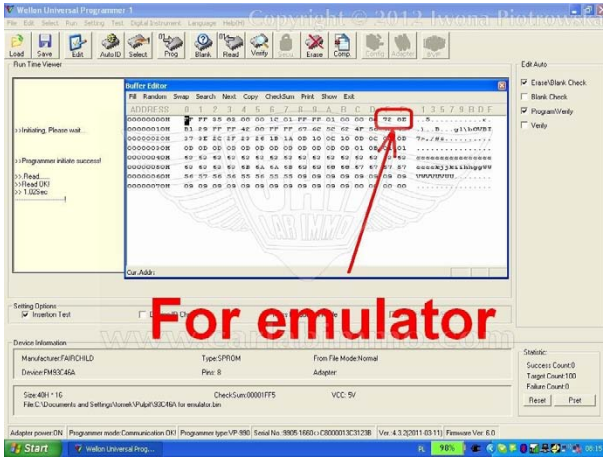


1.5 gasoline Hitachi MEC with 93C46 memory



Find **93C46** eeprom memory

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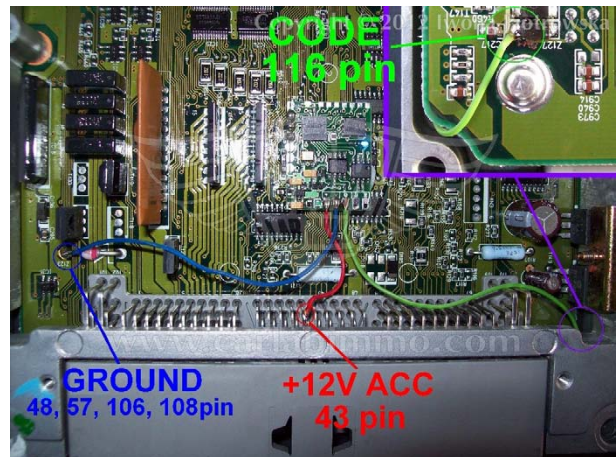
In address from **00E** to **00F** write **72 8E** or **8E 72** values

Connecting emulator to ECU

+12V ACC 43 pin

GND 108 pin

Code 116 pin
cut off from the plug in ECU

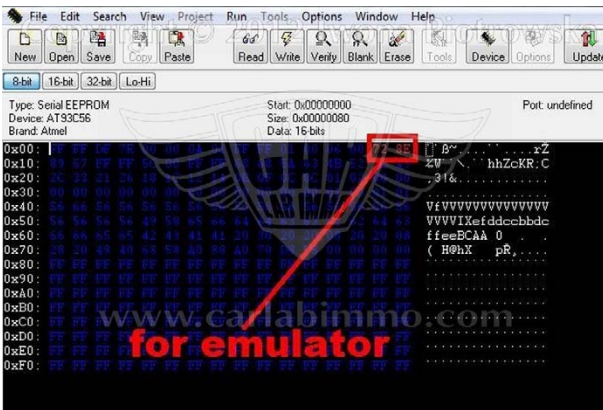


1.5 1.8 2.0 gasoline Hitachi MEC with 93C56 memory



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Find **93C56** eeprom memory



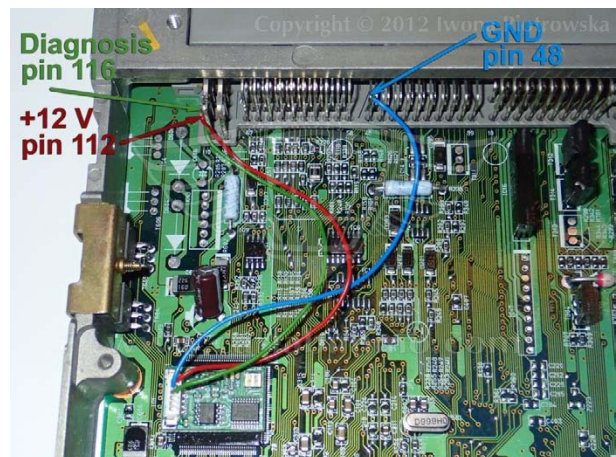
In address from **00E** to **00F** write **72 8E** or **8E 72** values

Connecting emulator to ECU

- +12V ACC 43 pin**
- GND 108 pin**
- Code 116 pin**
cut off from the plug in ECU



Connecting emulator to ECU for Nissan Primera 2001
2.0 16V 140PS

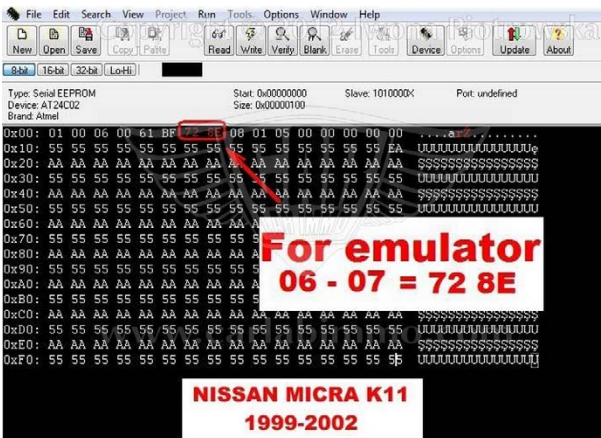
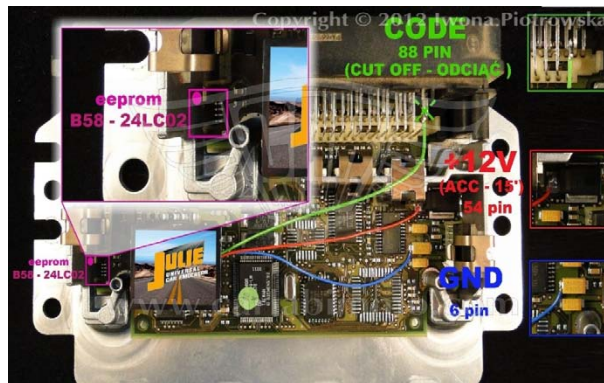


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1.4 gasoline Bosch ECU with 24LC02 memory



Find **B58253** eeprom memory - read as **24C02**



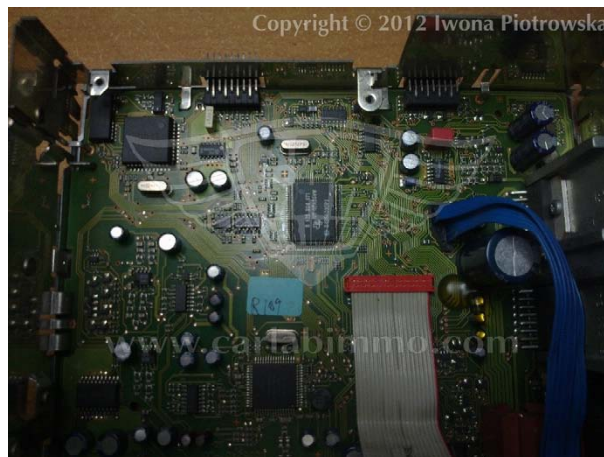
In address from **06** to **07** write **72 8E** values

BLAUPUNKT 9345 radio with 25160 memory

Upload memory content ([available HERE](#)) and connect up the radio, wait out the countdown of 50 seconds. Then when CODE shows up please enter code **8361** and confirm with UP ARROW button

Important!

When you enter incorrect code, it will cause the radio lock to turn on for 50 minutes



CLARION PN-1628M radio with f93C46 memory

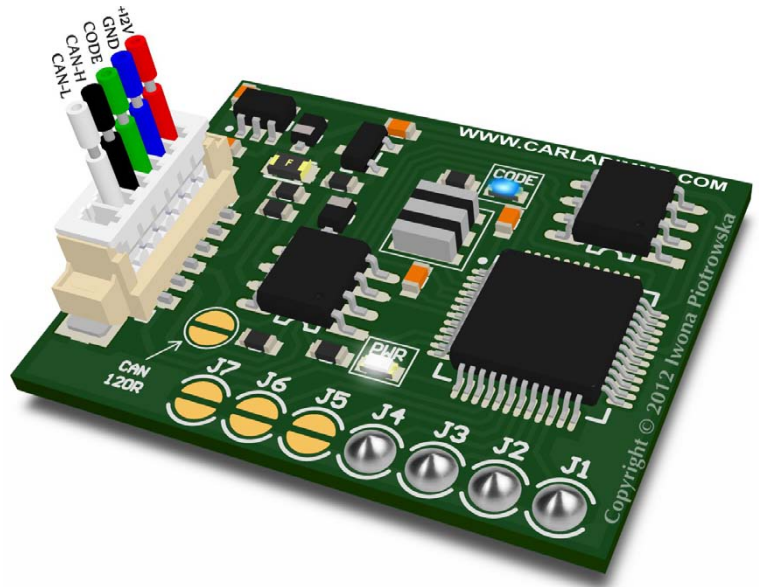
Upload memory content ([available HERE](#)) and connect up the radio, wait out the countdown of 50 seconds. Then when CODE shows up please enter code **1111** and confirm with UP ARROW button.



Opel immo with HC05

In Universal Julie Emulator
solder jumpers J1 J2, J3 and J4

Available as dedicated emulator or
Universal Julie Emulator program no. 33



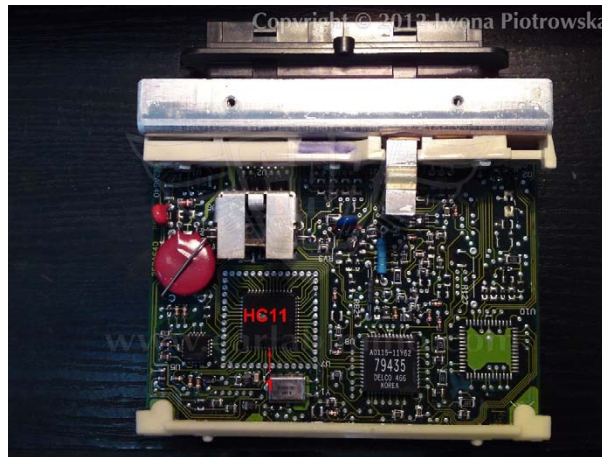
USE

1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor

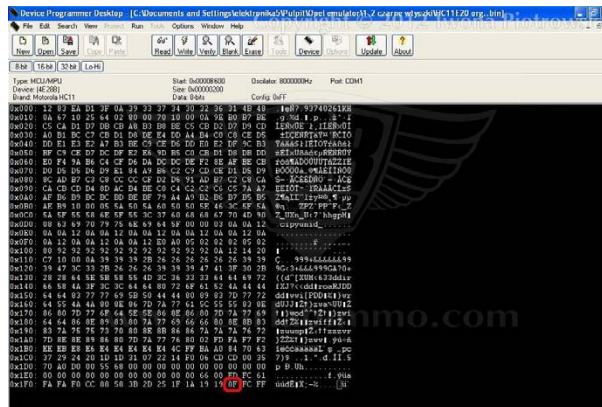
2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory

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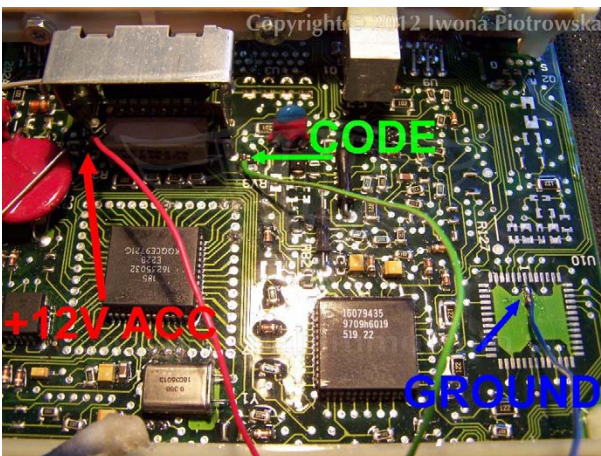
1.2 and 1.4 gasoline 2-socket (black) ECU with Motorola HC11E20 processor



Find Motorola **HC11E20** processor



In address **1FD** write **0F** value



Connecting emulator to ECU

- +12V ACC** red
- GND** blue
- Immo** green

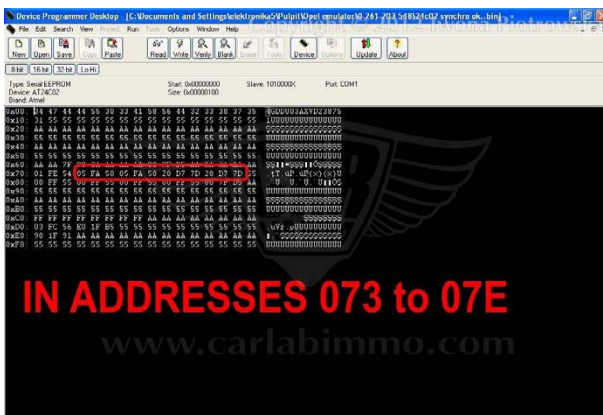
Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal

Back to the Contents

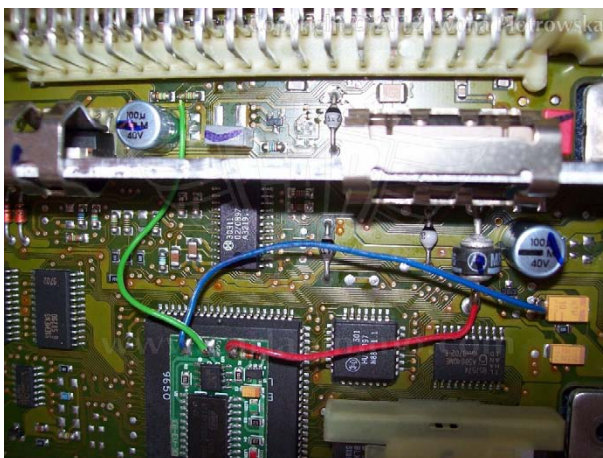
2.0 2.2 and 2.5 gasoline with 24C02 eeprom memory



Find **24C02** eeprom memory



In addresses from **073** to **07E** write
05 FA 50 05 FA 50 28 D7 7D 28 D7 7D
values



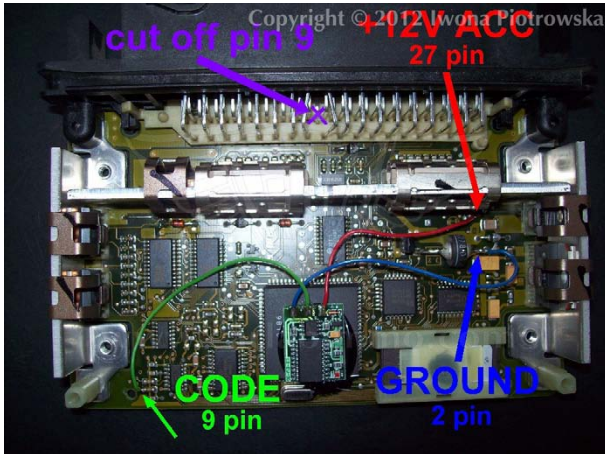
Connecting emulator to ECU
(2.0 2.2 gasoline)

+12V ACC 37 pin

GND 2 pin

Immo 9 pin

Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal



Connecting emulator to ECU (2.5 gasoline)

- +12V ACC 27 pin**
- GND 2 pin**
- Immo 9 pin**

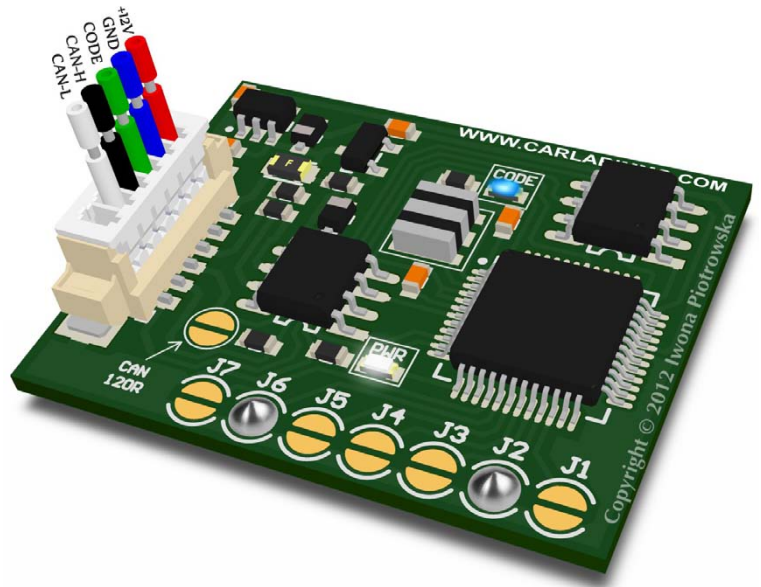
Disconnect immo and connect pin 6 with 7 in the wiring of immo plug to eliminate troubles with speed signal

Renault with CAN

In Universal Julie Emulator solder jumpers J2 and J6

Available as Universal Julie Emulator program no. 34

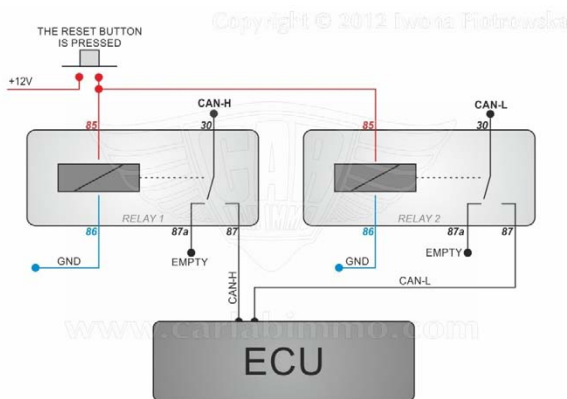
If you have older version without ESL2 programme, you have to solder jumpers J1, J2 and J6



USE

- SIRIUS 32 with CAN
- SIRIUS 34 with CAN
- 3-socket DELPHI ECU with CAN - 95080 memory
- 3-socket BOSCH EDC15 ECU with CAN - 5P08C3 memory
- EMS 3132 with CAN
- EMS 3134 with CAN

Disconnect plug from immo (UCH)!



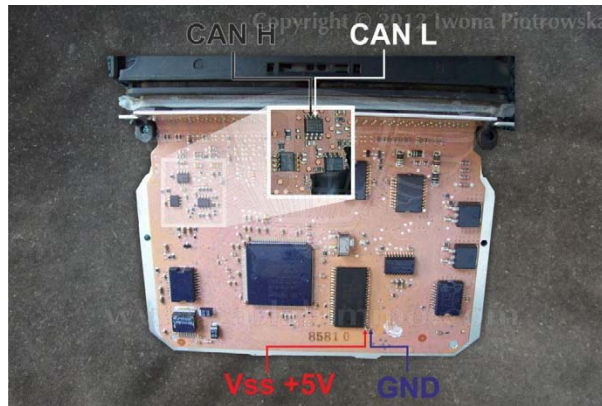
Attention!

If your car doesn't start use reset button and two relays like the picture on the left.

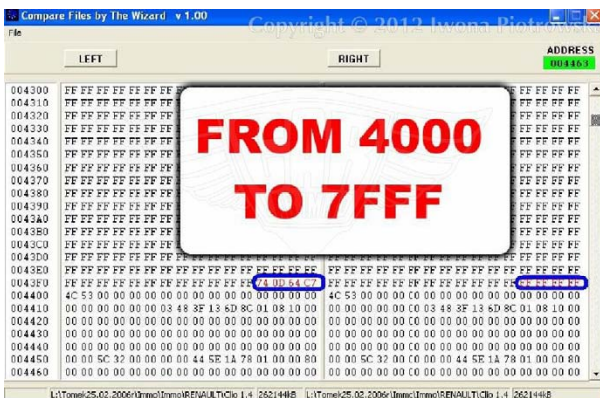
Firstly you need to press the reset button. Secondly turn the ignition on. Thirdly release the reset button and now you can start the car.

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SIRIUS 32 with CAN



Find **29F200** or **29F400** flash memory in ECU

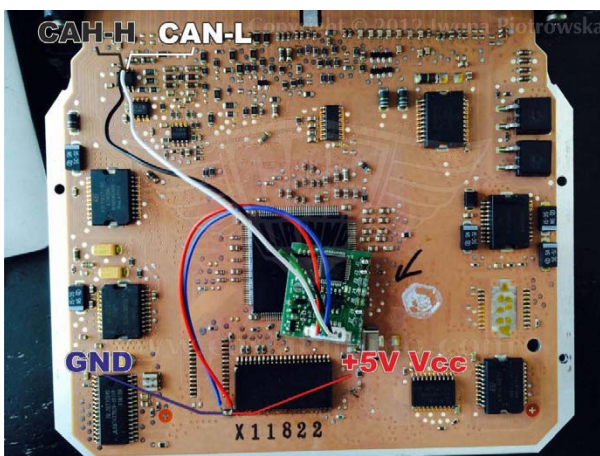


In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF!!!**

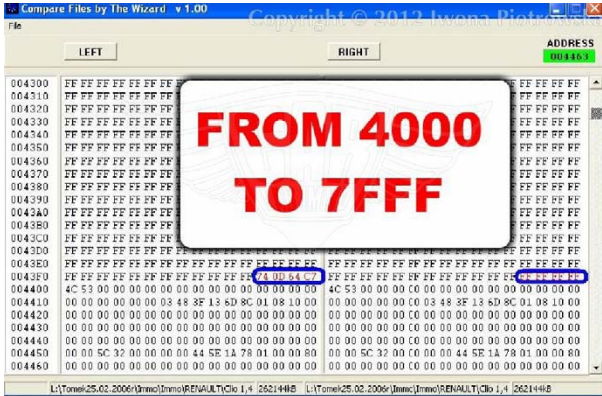
In order to start the starter you need to join two pins of starter's relay!

SIRIUS 34 with CAN



- CAN H** 8th leg of transducer
- CAN L** 7th leg of transducer

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In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF!!!**

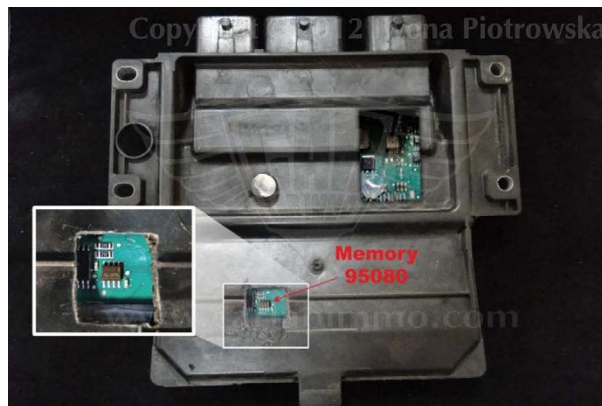
In order to start the starter you need to join two pins of starter's relay!

3-socket DELPHI ECU with CAN - 95080 memory

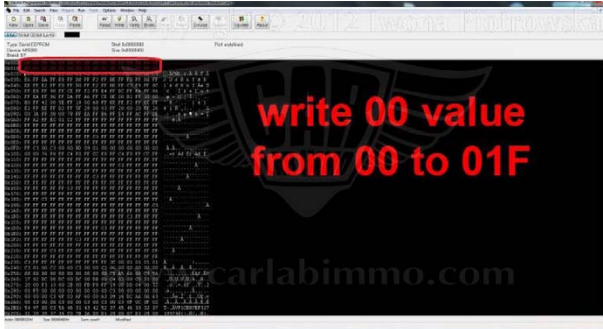


Connecting emulator to ECU

Find **95080** memory



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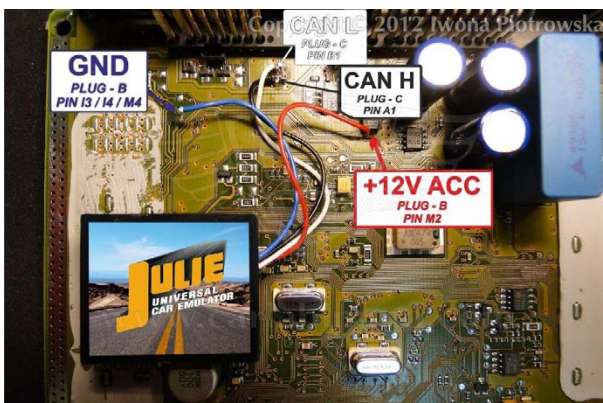


In address from 00 to 01F write 00 value

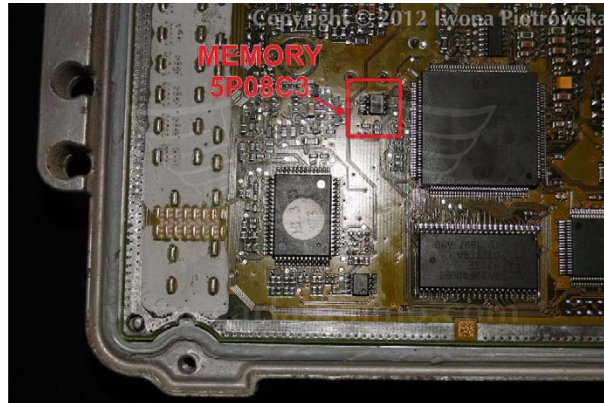
3-socket BOSCH EDC15 ECU with CAN - 5P08C3 memory



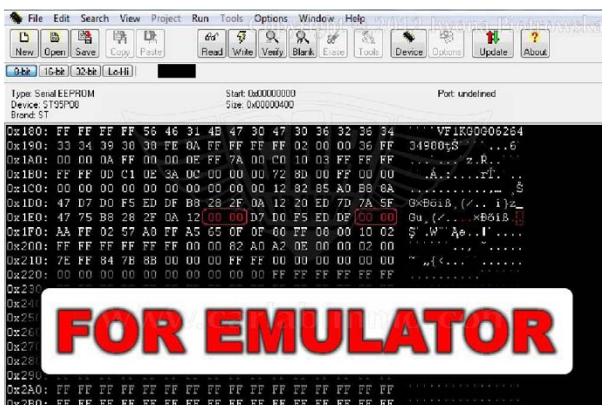
Connecting emulator to ECU



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Find **5P08C3** memory



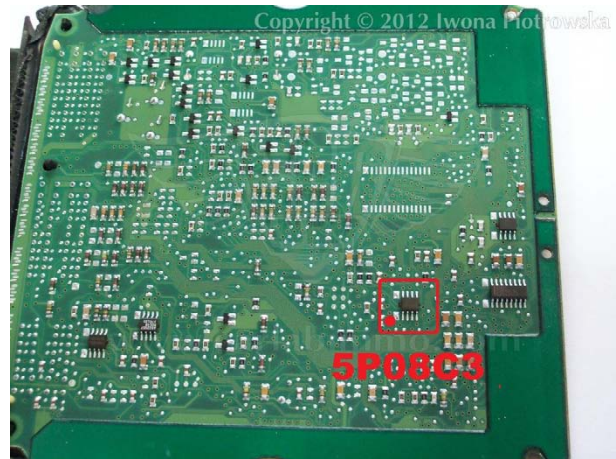
In address from **1E7** to **1E8**
and from **1EE** to **1EF** write **00 00** values

Other EDC15 ECUs

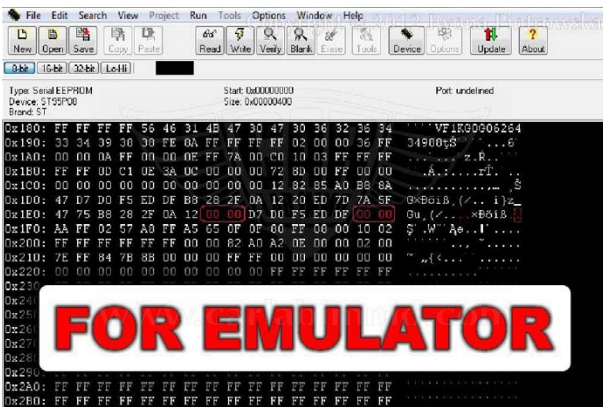


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Connecting emulator to ECU



Find **5P08C3** memory



In address from **1E7** to **1E8** and **1EE** to **1EF** write **00 00** values

It is possible to disconnected CAN from ECU

EMS 3132 with CAN

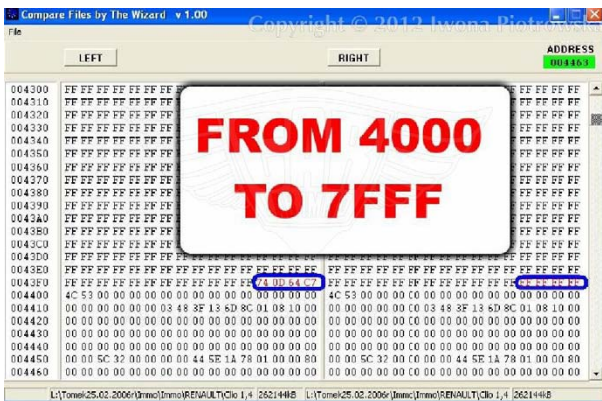


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Connecting emulator to ECU



Find **29F200** flash



In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

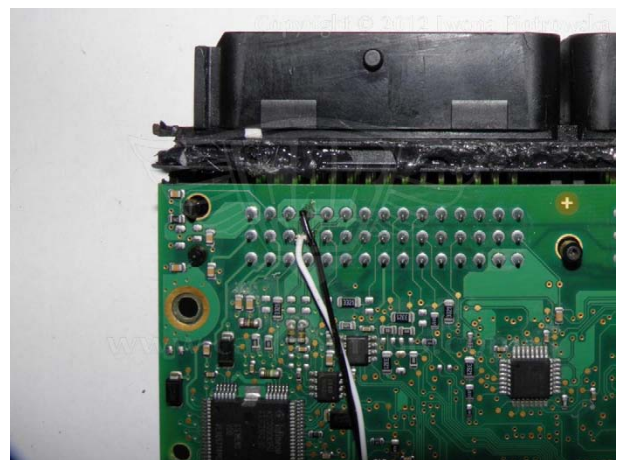
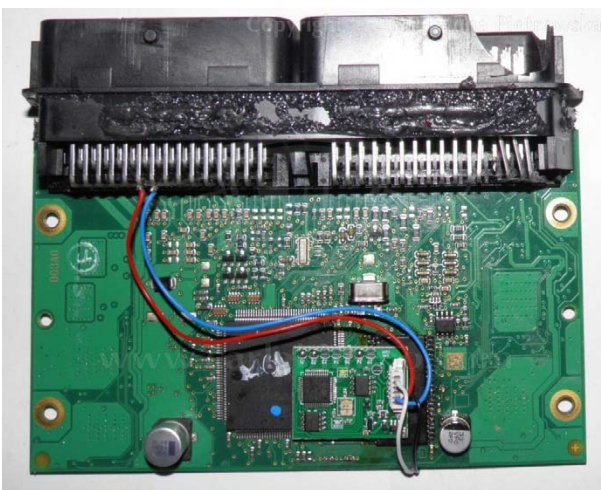
Repeat it in the whole map from **4000** to **7FFF!!!**

Every time you want to start the car, you have to turn the keys in the ignition **TWICE** before it starts!

EMS 3134 with CAN

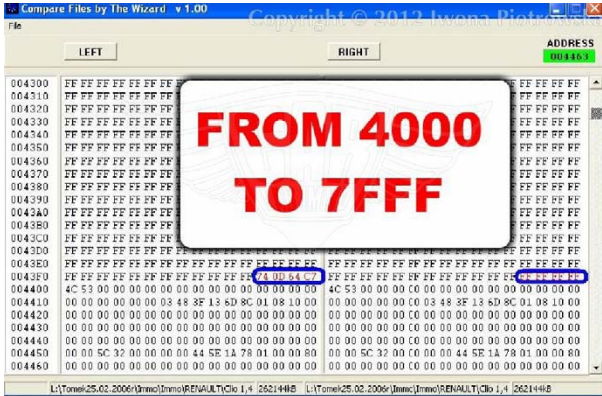


Connecting emulator to ECU



Find **29F400** flash

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In the addresses from **4000** to **7FFF**, find all **64 C7** or **54 D7** values and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF!!!**

Every time you want to start the car, you have to turn the keys in the ignition **TWICE** before it starts!

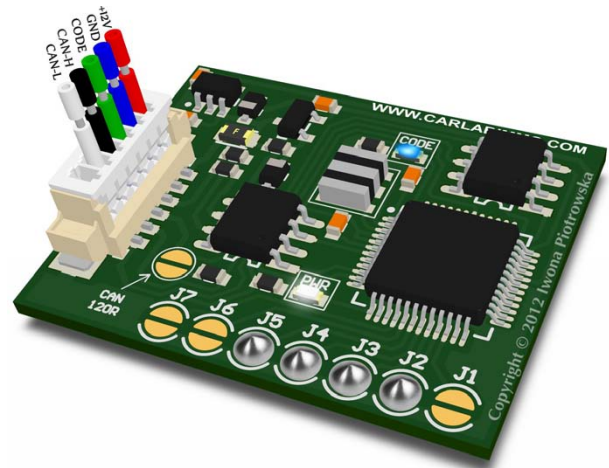
Tested on vehicles:

- SIRIUS 32 - Clio 1.2 8V 2001**
- Renault Megane II / Clio II 1.5 DCI**
- Renault Traffic 1.9DCI 2004**
- Nissan Primastar 1.9 DCI 2001 - 03**
- Opel Vivaro 1.9DCI /2.5DCI 2004**
- Renault Master 2.5DCI 2002**
- Renault Laguna II 1.9DCI/ 2.2DCI**
- Renault Megane II 1.9DCI**

Renault without CAN

In Universal Julie Emulator
solder jumpers J2, J3, J4 and J5

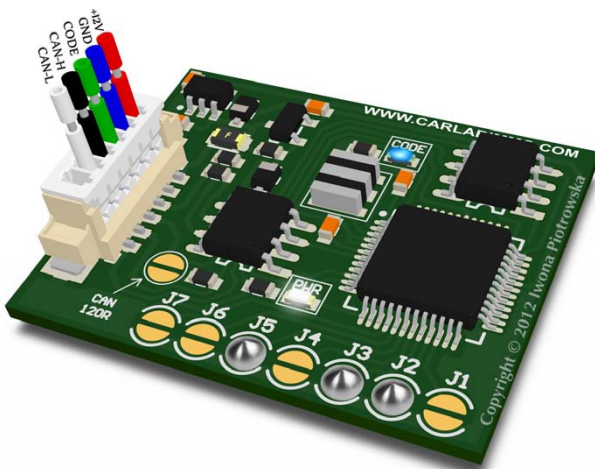
Available as dedicated emulator or
Universal Julie Emulator program no. 35



Renault without CAN old ECUs

In Universal Julie Emulator
solder jumpers J2, J3 and J5

Available as dedicated emulator or
Universal Julie Emulator program no. 36



USE

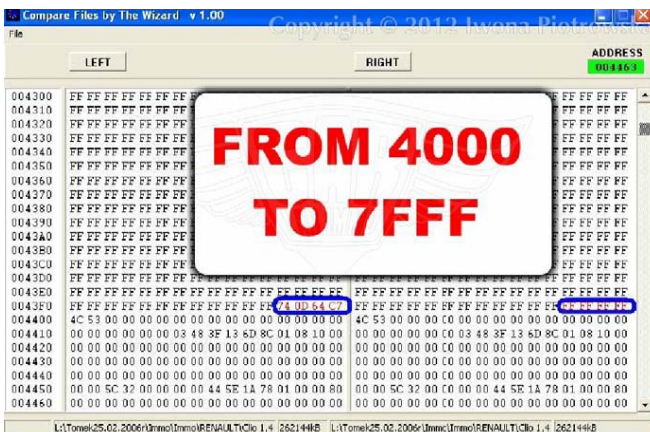
- Sirius 32 without CAN
- Sirius 34 without CAN
- EMS 3132
- 1.9 2.2 and 2.5 DCi without CAN
- 1.5 DCi without CAN
- 1.9 DTi 1 plug
- 1.9 DTi 2 plugs
- 1.9 diesel DCU3
- 2.8 TD
- 3.0 gasoline 1 plug
- Volvo S40 and V40 – 1.9TD (Bosch 0 281 001 906 ECU)

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Sirius 32 without CAN



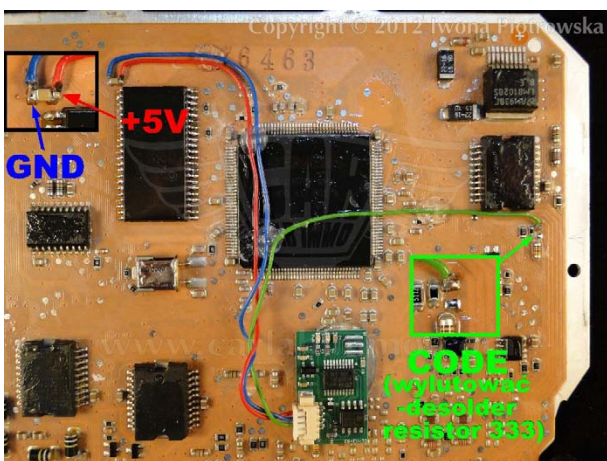
Find 29F200 or 29F400 flash



In the addresses from 4000 to 7FFF, find all values 64 C7 or 54 D7 and change these values and two units before them into FF FF FF FF

Repeat it in the whole map from 4000 to 7FFF !!!

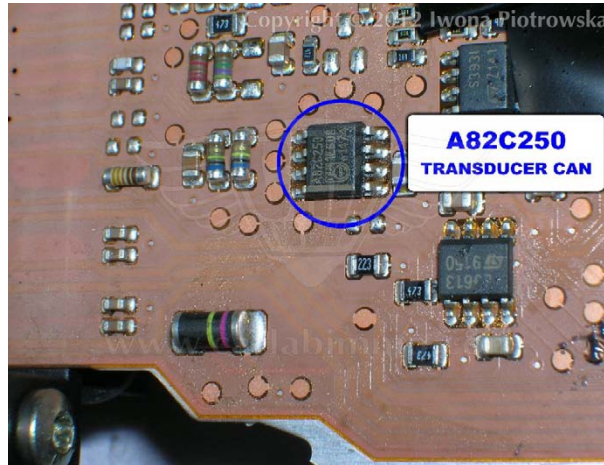
Connecting emulator to ECU



Take power and GND for the emulator from the capacitor

Connect Code signal after desoldering a 333 resistor

If there is **A82C250 CAN transducer** on the plate in the ECU, then the emulator will not work in this ECU!!!

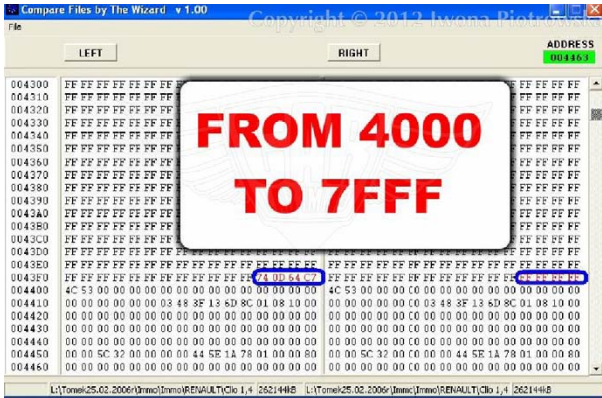


Sirius 34 without CAN



Find **29F200** or **29F400** flash

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In the addresses from **4000** to **7FFF**, find all values **64 C7** or **54 D7** and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF !!!**



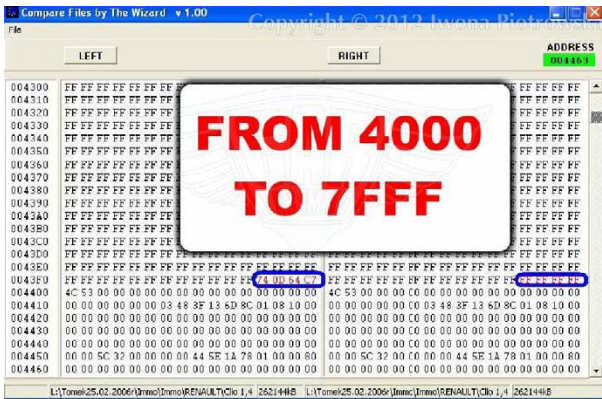
Take power for the emulator from the capacitor at the flash

EMS 3132



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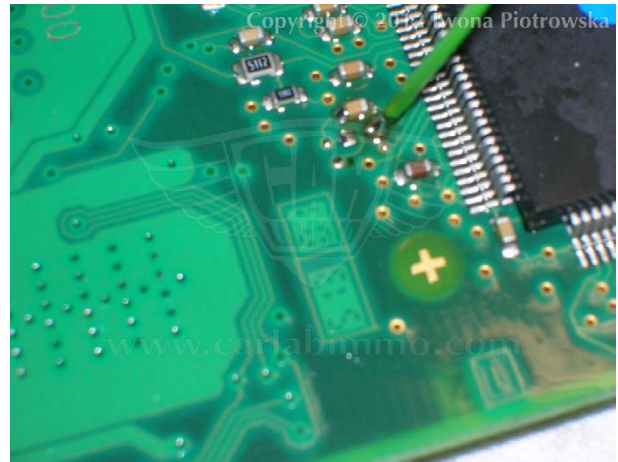
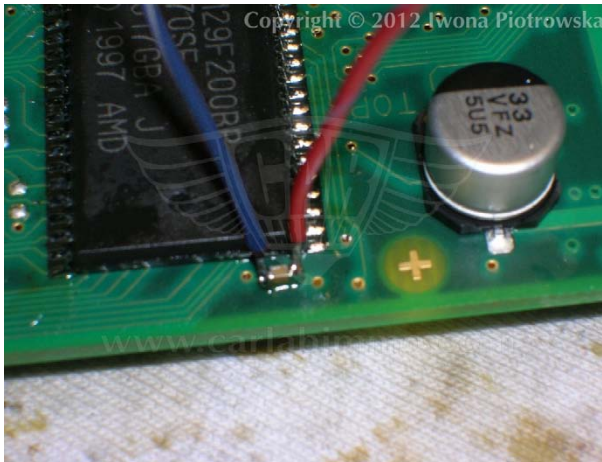
Find **29F200** or **29F400** flash



In the addresses from **4000** to **7FFF**, find all values **64 C7** or **54 D7** and change these values and two units before them into **FF FF FF FF**

Repeat it in the whole map from **4000** to **7FFF !!!**

Take power for the emulator from the capacitor at the flash.



Connect emulator as pictured after unsoldering the capacitor.

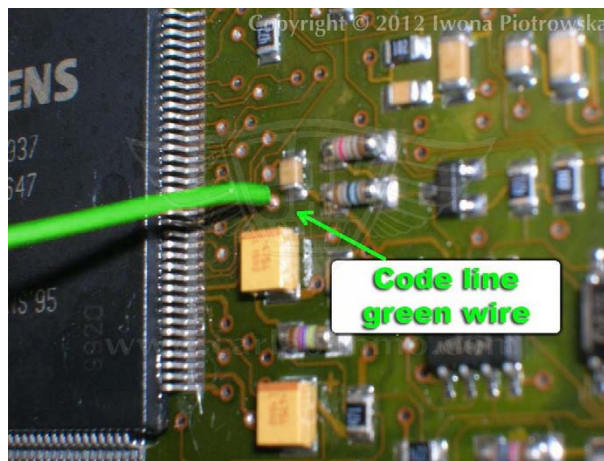
Connect it to the point which leads to the processor.

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1.9 2.2 and 2.5 DCi without CAN



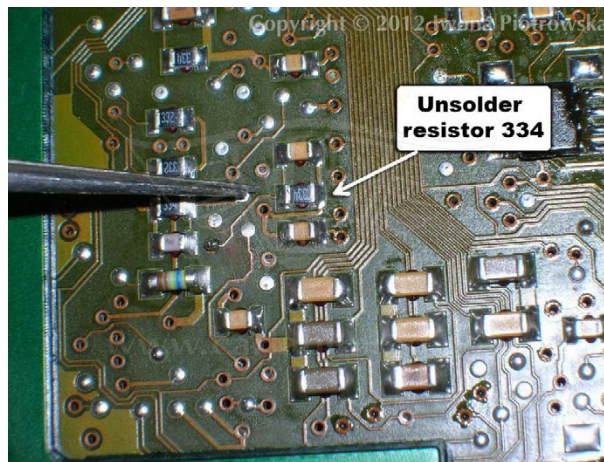
In **5P08C3** memory
in the addresses:
003E 003F 0040 0041
and
0044 0045 0046 0047
change these values into **FF**



In ECU, solder immo line (code) of emulator to the point as pictured



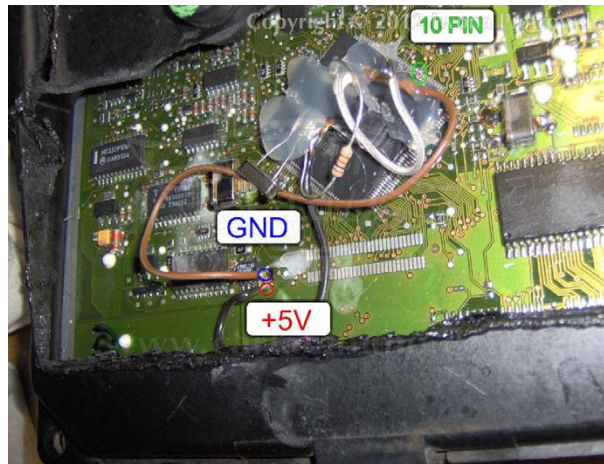
Take power for the emulator from the capacitor on the ECU plate



Unsolder 334 resistor

Turn on the ignition for 30 seconds, then turn it off for 30 seconds and repeat the procedure a few times

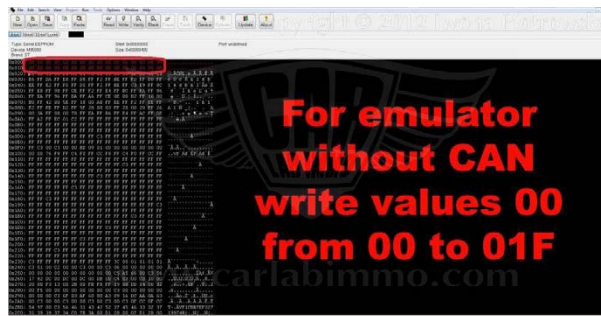
1.5 DCi without CAN



Car without tachometer

Replace **25080** content and connect emulator.

10 pin of processor is immo line as pictured, which must be raised.

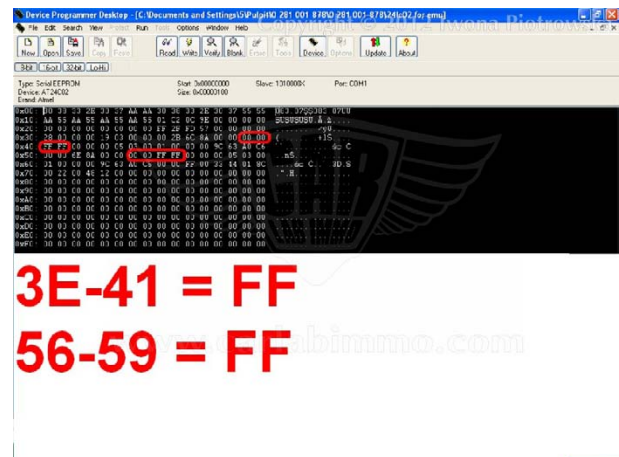
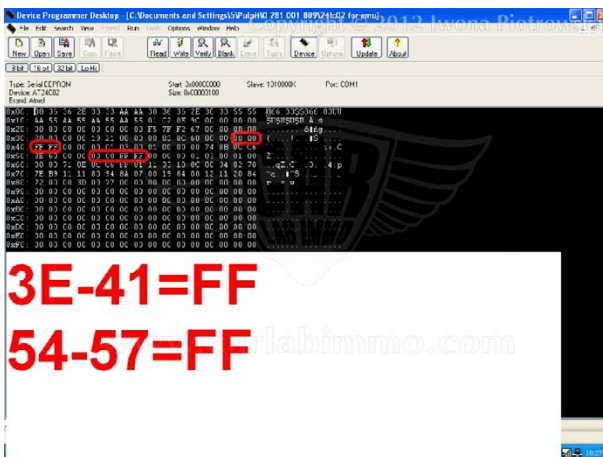


Take power from the capacitor at the memory.

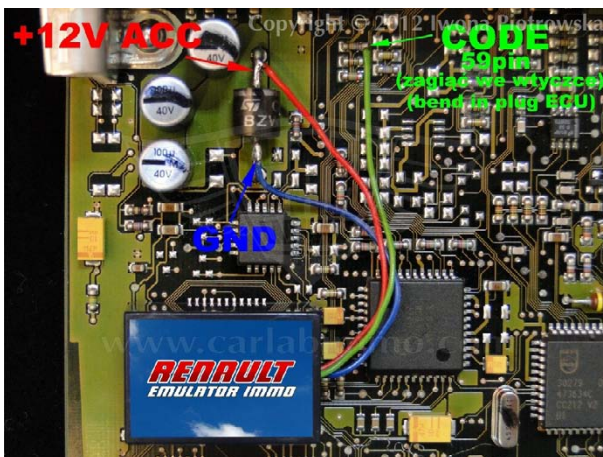
Code injectors and settings with Clip or Launch.

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1.9 DTi 1 plug



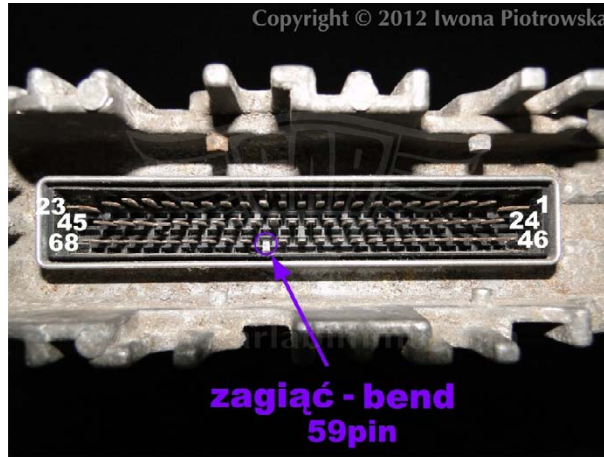
Connecting emulator to ECU



Connect the immo line of emulator to pin 59 of ECU.

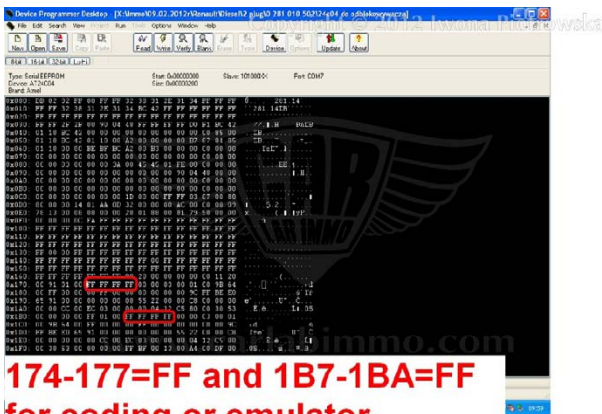
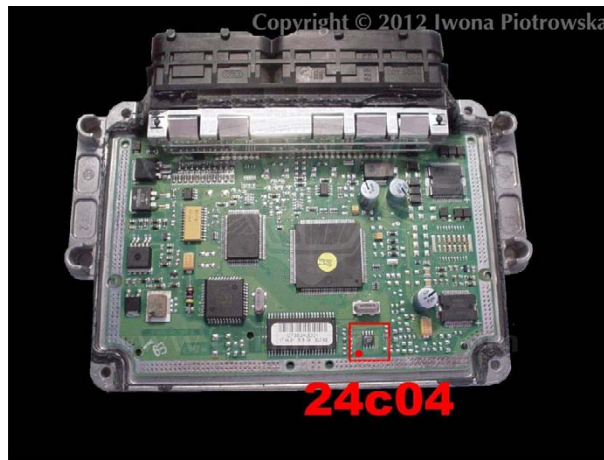
Connect GND and ACC to diode in the ECU.

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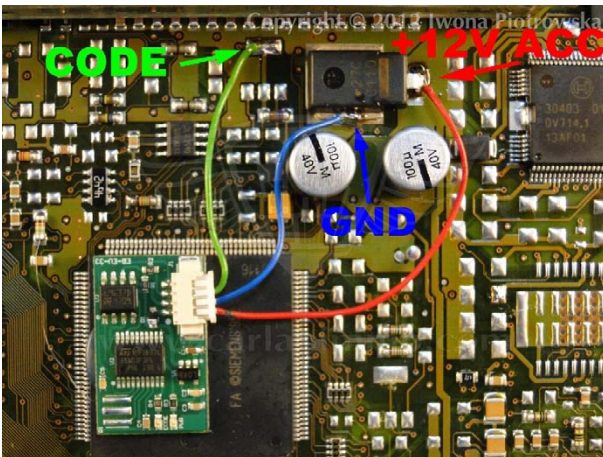
Bend pin 59 in ECU socket

1.9 DTi 2 plugs



In the addresses from **174** to **177** and **1B7** to **1BA** change these values into **FF FF FF FF** in **24C04** memory

Connecting emulator to ECU



- ACC 81 pin
- GND 4 and 5 pin
- Immo 15 pin



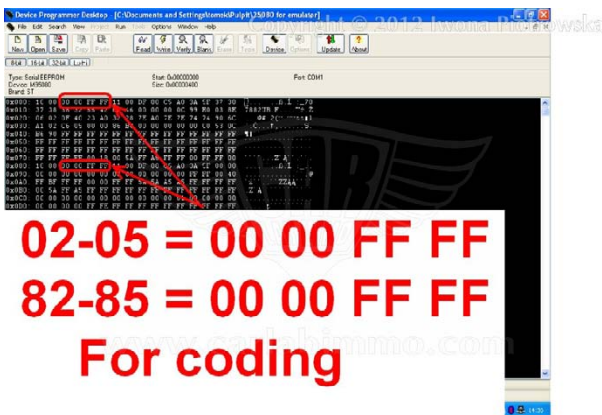
Cut off pin 15 from wiring!!!

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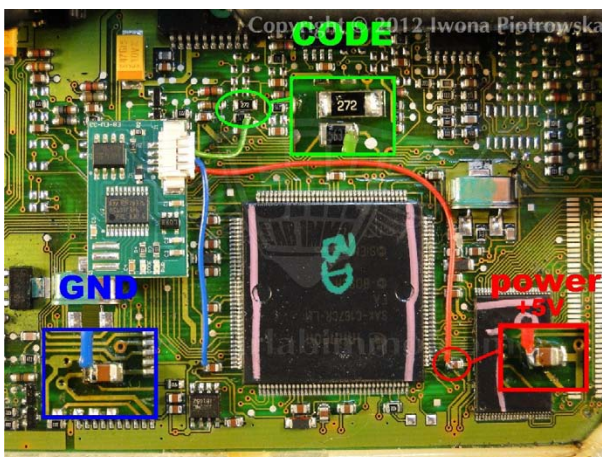
1.9 diesel DCU3



Renault Kangoo 1.9 Diesel 2001



In addresses from **02 to 05** and **82 to 85** change these values into **00 00 FF FF** in **95080** memory



Connecting emulator to ECU

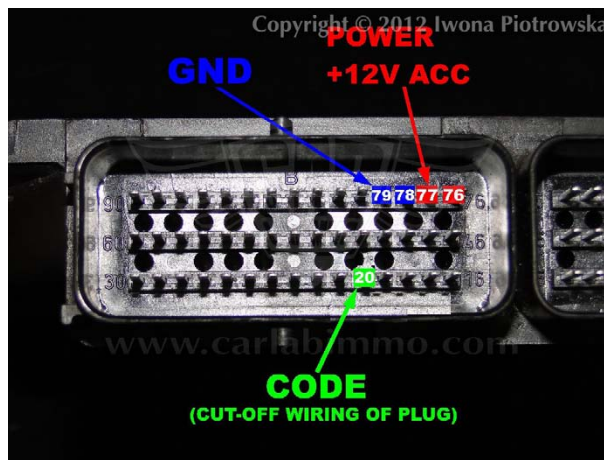
- +5V VCC** from capacitor
- GND** 79 pin
- Code** 20 pin

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Pin 20 must be bent in socket or cut off from the car wiring.

Connecting emulator to ECU



+12V ACC 76 or 77 pin

GND 78 or 79 pin

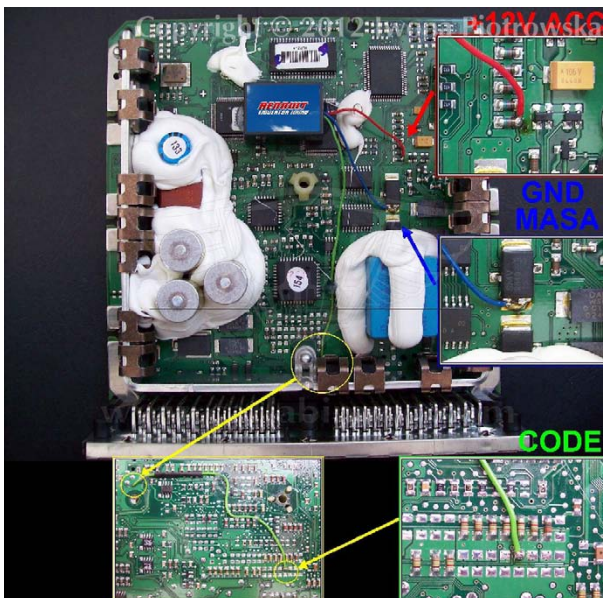
Code 20 pin Cut off wiring from ECU plug

2.8 TD (Renault Mascott)



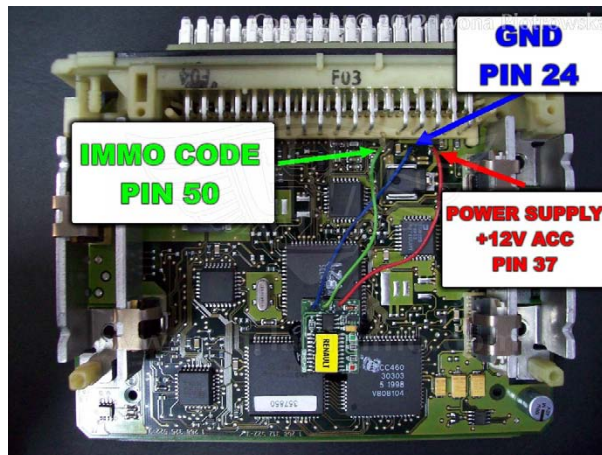
In addresses from **040** to **1FF** change these values into **FF** in **24C16** memory

Connecting emulator to ECU

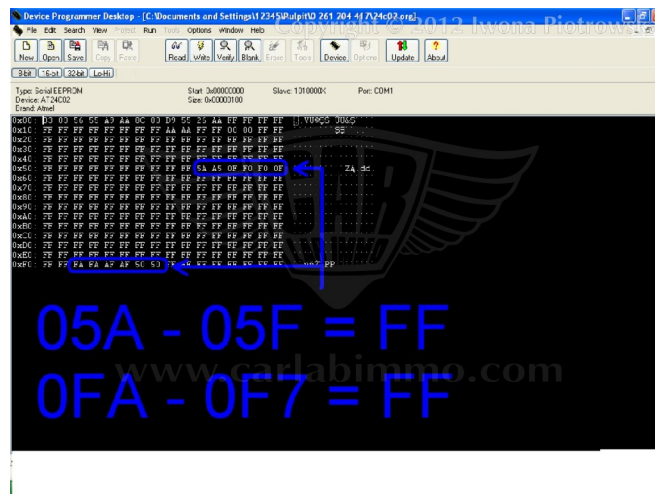


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3.0 gasoline 1 plug with 24C02 memory (Renault Laguna)



Cut off pin 50 from ECU!!!



In addresses from 05A to 05F and from 0F2 to 0F7 change these values into FF in 24C02 memory

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**Volvo S40 and V40 – 1.9TD (Bosch 0 281 001 906 ECU)
MSA 15.5-5.40**



OFFSET	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00000000	39	37	32	2E	31	34	AA	AA	39	37	32	2E	31	34	55	55	972.1455972.1400
00000010	AA	55	AA	55	AA	55	AA	55	01	C2	06	A4	00	00	00	00	SUSUSUSU A H
00000020	00	00	00	00	00	00	00	00	FF	9F	09	48	00	00	00	00	..... G2 H
00000030	0B	16	00	00	00	00	00	00	00	27	42	5D	00	00	00	00	..... B) .
00000040	FF	FF	00	00	01	00	00	00	01	00	00	00	88	77	12	C6	..... w.C
00000050	40	5D	00	00	00	00	FF	FF	00	00	00	01	00	00	01	00	.....
00000060	00	00	89	76	12	C5	FF	01	13	11	01	A4	39	00	17	00	..... Sv C
00000070	50	00	12	11	40	A0	06	00	53	76	00	82	31	11	11	31	..... Sv .1 .1
00000080	E4	28	DD	46	93	77	14	11	42	B6	7E	49	EE	88	5A	8D	..... (YF w. B* 11 ZT
00000090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....
000000F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	.....

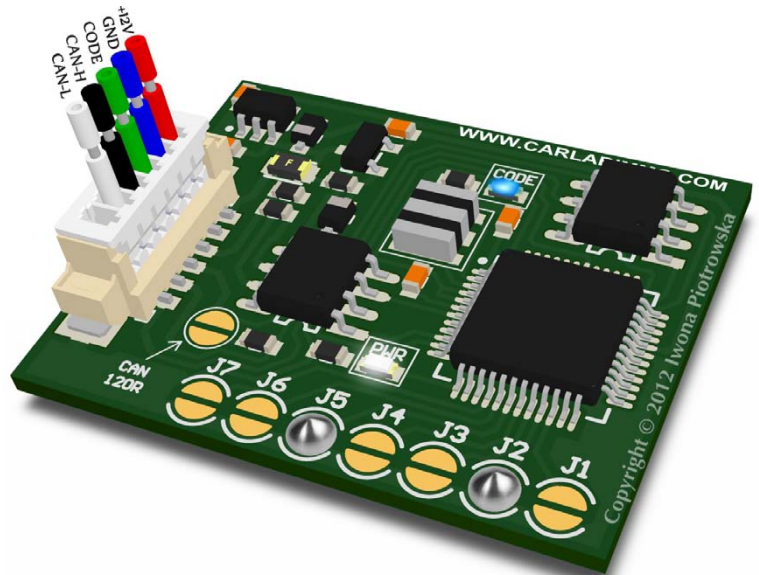
In addresses from **03F** to **041** and from **054** to **057** change these values into **00 00 FF FF** in **24C02** memory

03F - 041 = 00 00 FF FF
054 - 057 = 00 00 FF FF

Suzuki with X24C01 memory

**In Universal Julie Emulator
solder jumpers J2 and J5**

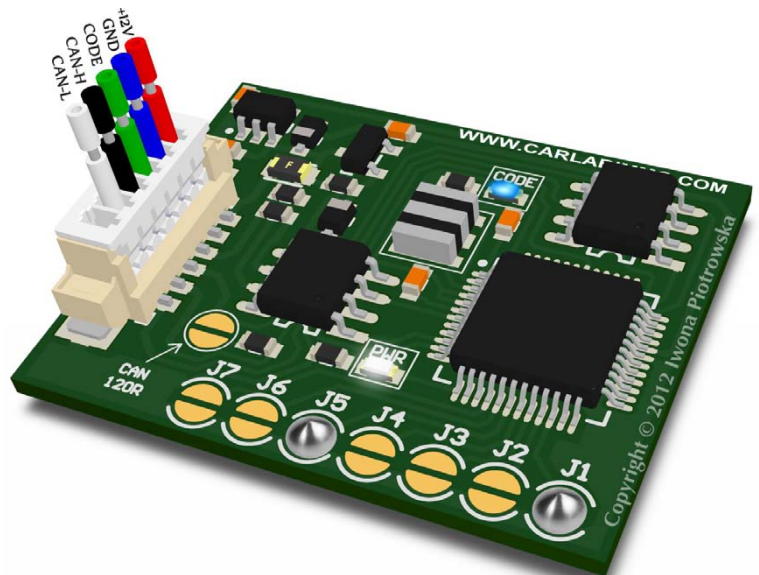
Available as dedicated emulator or
Universal Julie Emulator program no. 37



Suzuki with OKI memory

**In Universal Julie Emulator
solder jumpers J1 and J5**

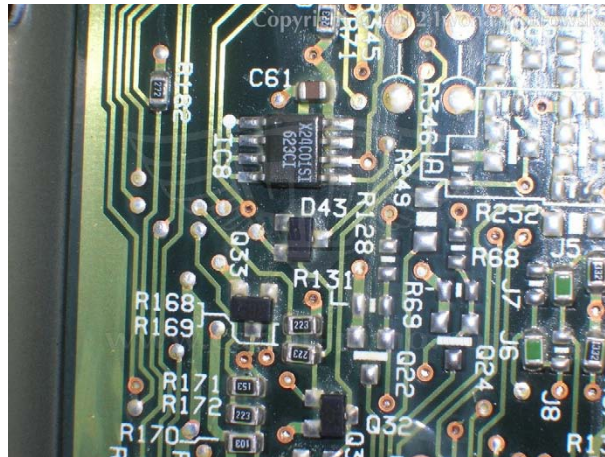
Available as dedicated emulator or
Universal Julie Emulator program no. 38



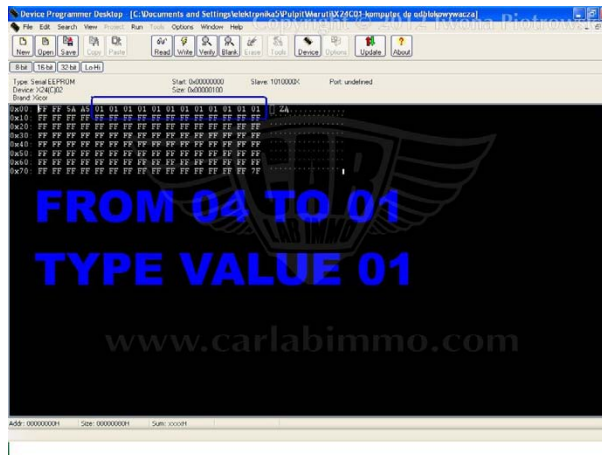
* Sometimes, X24C01 and OKI programs work interchangeably

USE

ECU with X24C01 memory
ECU with OKI memory read as 93LC56

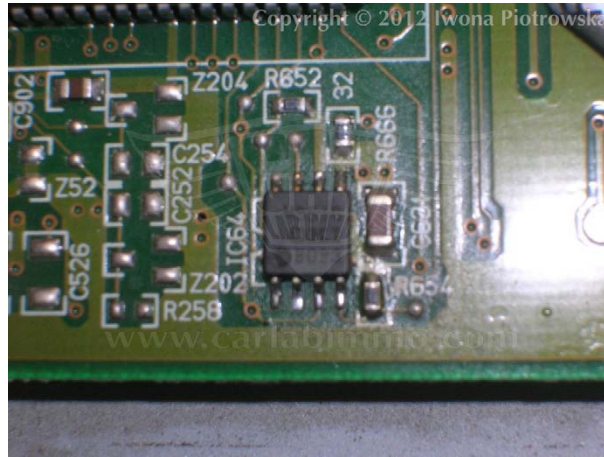


Find **X24C01** eeprom memory

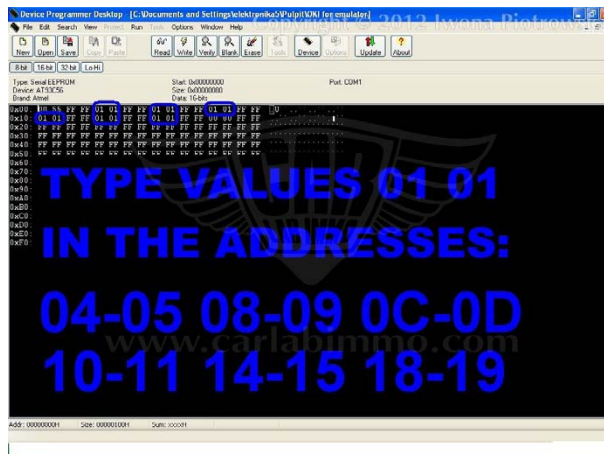


In address from **04** to **0F** write **01** value

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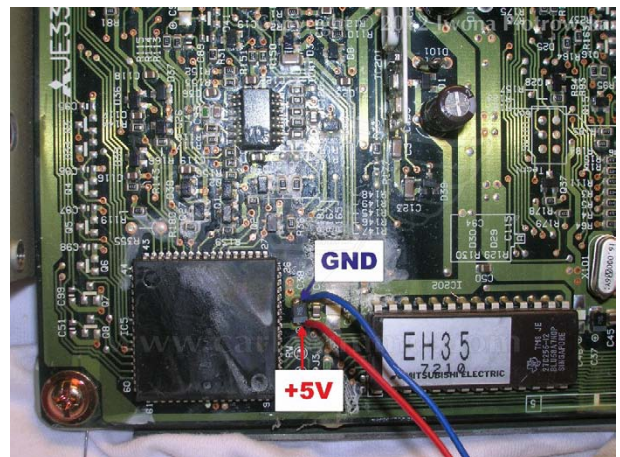
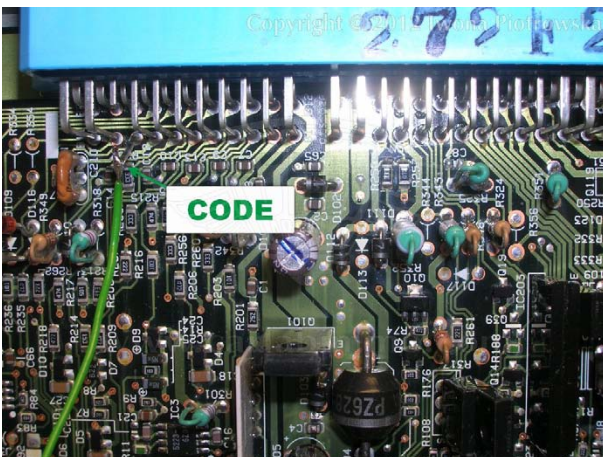
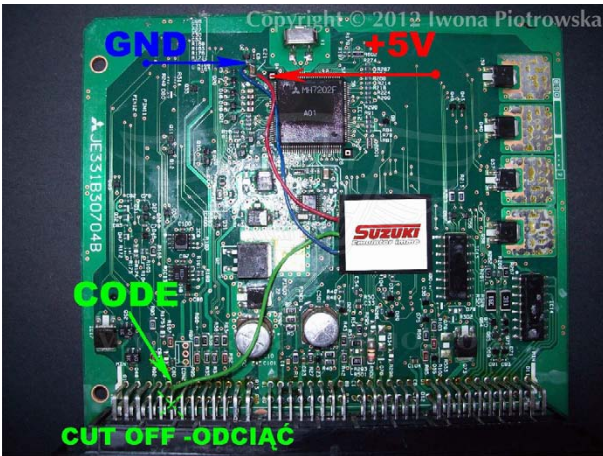
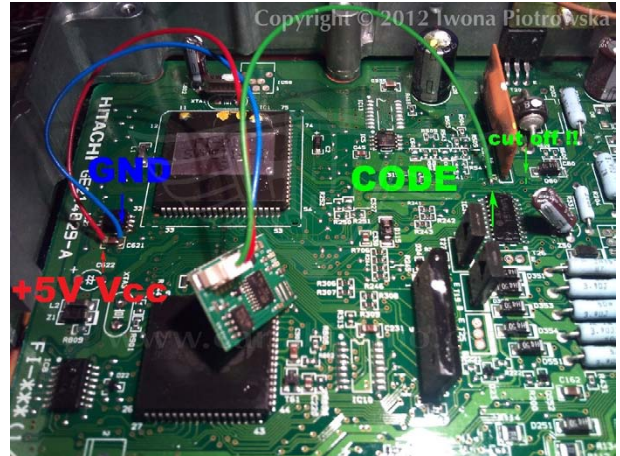
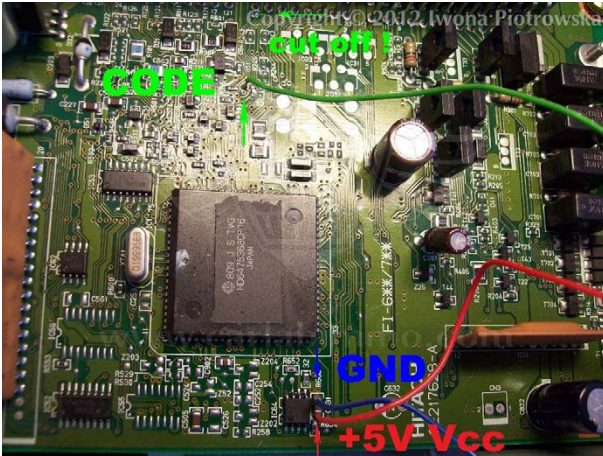
Find **OKI** eeprom memory,
read and save as **93LC56**

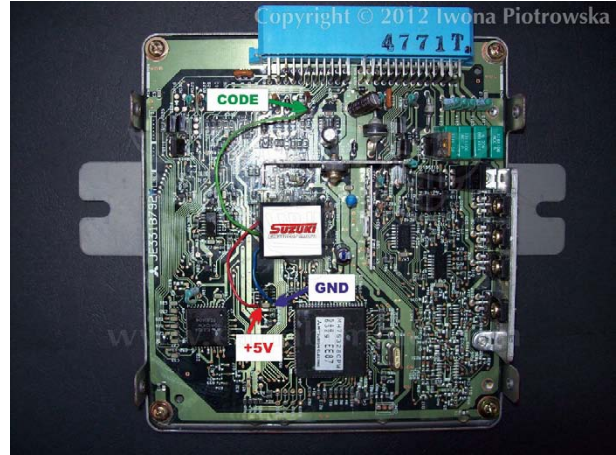
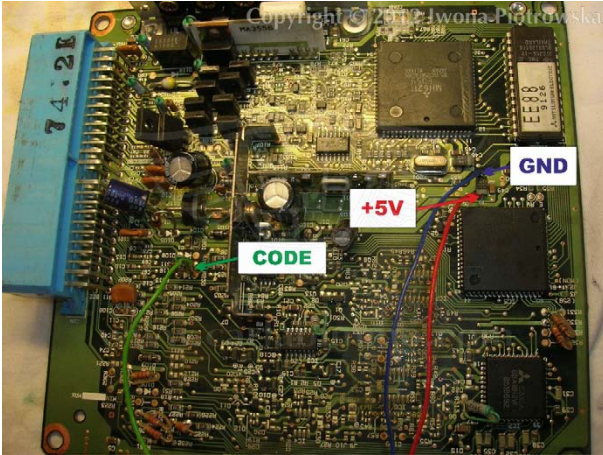


In **OKI** eeprom memory
write **01 01** values in addresses:

04 - 05 08 - 09 0C - 0D
10 - 11 14 - 15 18 - 19

Connection diagram examples





Immo line e.g. socket B pin 15

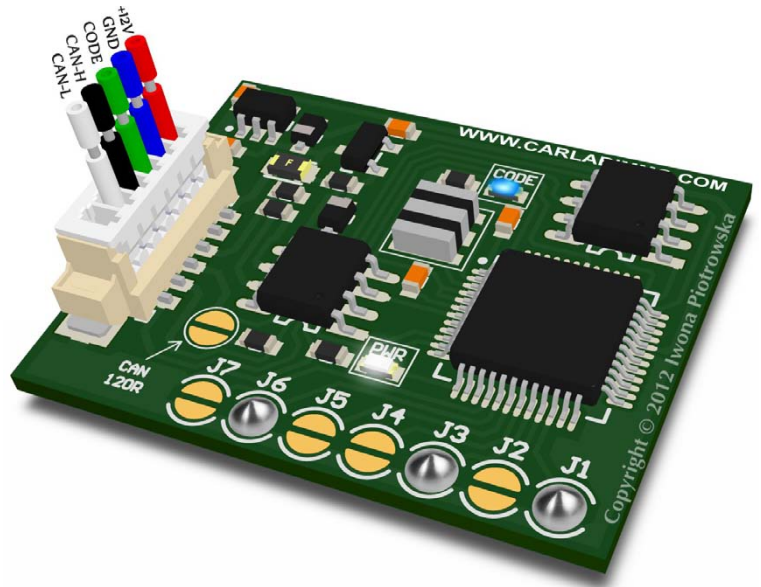
In different ECU types, the immo line can be in different pins. You check connection between ECU pin and pin 9 of 16-pin OBD socket with a multimeter.

Power supply 5V from capacitor near memory.

Suzuki with 93C56 memory

**In Universal Julie Emulator
solder jumpers J1, J3 and J6**

Available as dedicated emulator or
Universal Julie Emulator program no. 39



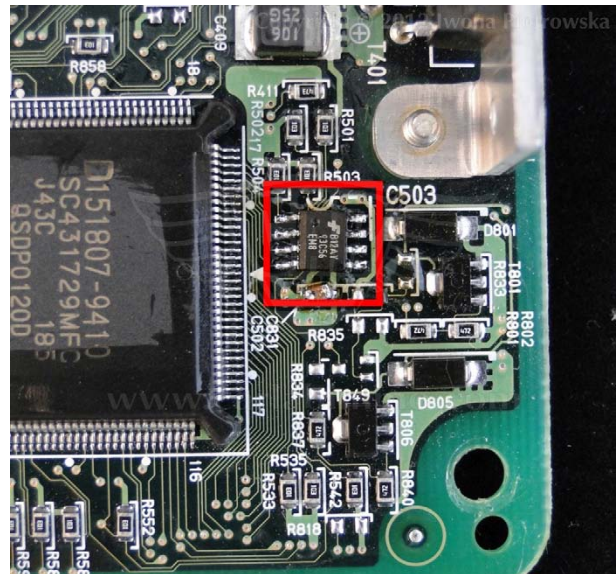
USE

Denso metal ECU box with 93C56 memory and 29F200 flash

Denso plastic ECU box with 93C56 memory and 29F200 flash

The car must have 4C or 4D key.

Denso metal ECU box with 93C56 memory and 29F200 flash



Find **93C56** memory in ECU

Offset	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00000000	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000001	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000002	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000003	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000004	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000005	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000006	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000007	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000008	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000009	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000A	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000B	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000C	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000D	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000E	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000000F	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000010	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000011	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000012	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000013	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000014	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000015	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000016	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000017	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000018	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000019	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001A	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001B	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001C	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001D	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001E	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
0000001F	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

From 04 to 07 write 8A 57 01 07 value.

In **93C56** memory write **8A 57 01 07** values in addresses from **04** to **07**

Connection diagram examples

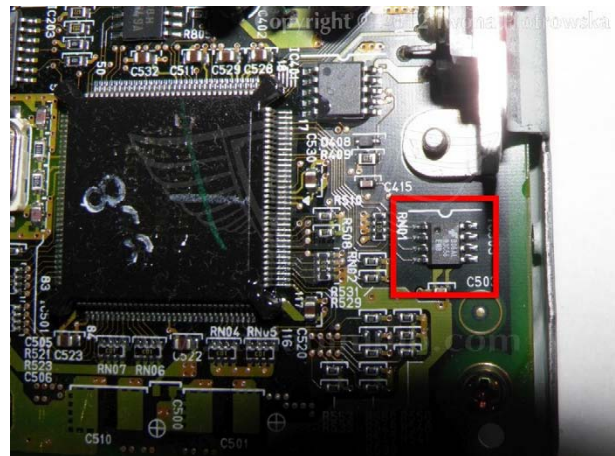


Immo line e.g. socket C pin 7

In different ECU types, the immo line can be in different pins. You check connection between ECU pin and pin 9 of 16-pin OBD socket with a multimeter.

Disconnect immo box!

Subaru Justy 1.3 4WD 2000/2001



Find **93C56** memory in ECU

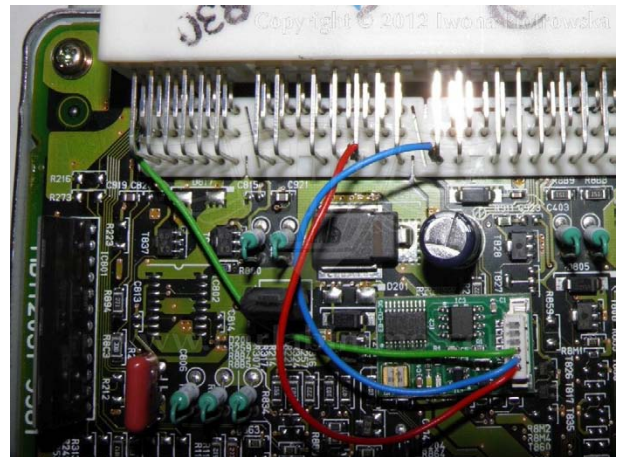
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8A 57 01 07

OFFSET	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00000000	00	00	84	A1	8A	57	01	07	00	00	EC	51	00	00	EC	51
00000010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00000020	00	00	08	00	A1	E8	04	68	FF	FF	FF	FF	FF	FF	FF	FF
00000030	FF	FF	FF	FF	FF	FF	FF	FF	00	00	00	00	00	00	FF	FF
00000040	00	00	00	00	00	00	00	00	A5	5A	FF	FF	FF	FF	FF	FF
00000050	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000060	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000070	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000080	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
00000090	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
000000F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

In **93C56** memory
write **8A 57 01 07** values in addresses from **04** to **07**

Connection diagram examples



Disconnect immo box!

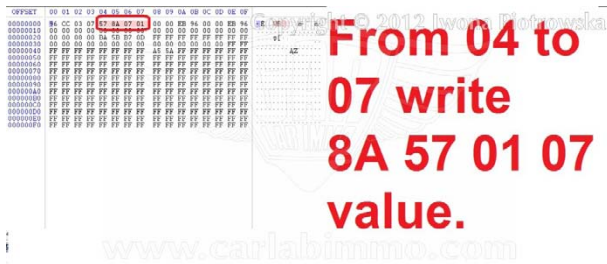


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Denso plastic ECU box with 93C56 memory and 29F200 flash



Find 93C56 memory in ECU



In 93C56 memory write 8A 57 01 07 values in addresses from 04 to 07

Connection diagram example



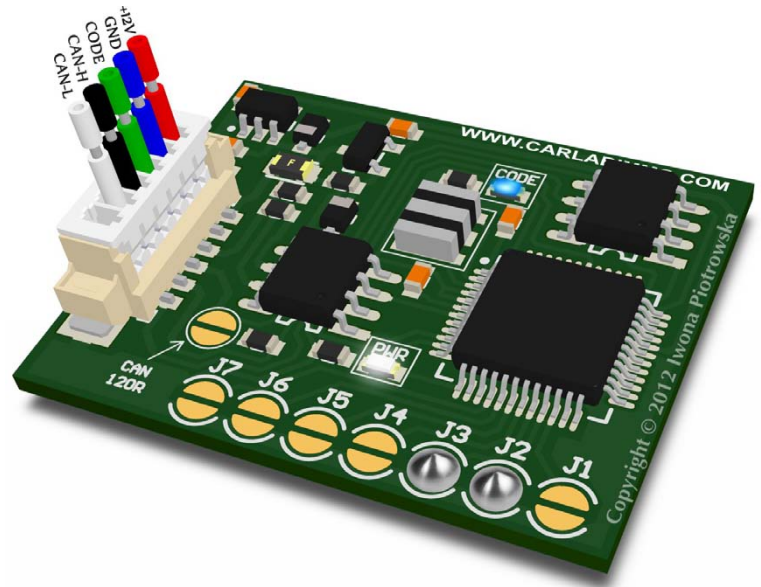
Disconnect immo box and connect emulator to the immo's box plug

- GND 1 pin
- Immo line 2 pin
- +12V ACC 3 pin

TMS 374 – Citroen, Peugeot, Renault

In Universal Julie Emulator
solder jumpers J2 and J3

Available as dedicated emulator or
Universal Julie Emulator program no. 40



EMULATOR'S POWER +5V

USE

Renault ECU with TMS374 processor

Siemens Fenix 5
Sagem Safir 1
Sagem Safir 2

Citroen, Peugeot ECU with TMS374 processor

Sagem SL96
Magnetti Marelli 1AP20, 1AP40, 1AP41, 1AP43, 1AP80, 1AP81, 1AP83, 1AP90

Volvo with TMS374 processor

Siemens Fenix 5
(Volvo V40/S40 1,8i 1996-1999 ECU S113727100C_VOLVO, 30850998-01)
Siemens (Volvo V40/S40 1,8i 1996 ECU
S113716100C, HOM7700860924)

Before removing immo, cut the immo cable off the ECU plug

Sagem SL96 – 48 pin

Magnetti Marelli 1AP - pin 48 and 27

Fenix5 1.4 and 1.6 - 37 pin, Fenix5 1.8 and 2.0 - 35 pin

Sagem Safir1 35-pins – 30 pin

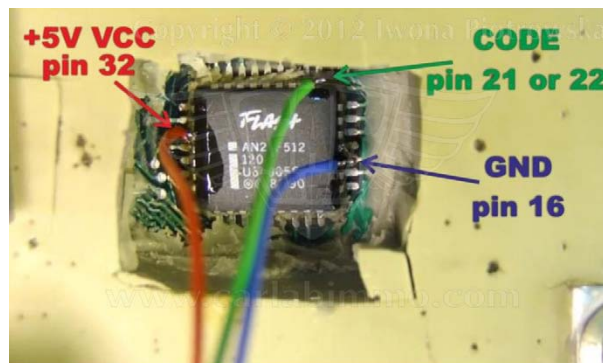
Sagem Safir2 55-pins - 37 pin

Siemens Fenix 5 S113727100C – Volvo 1.8 55 pins – 35 pin

Siemens S113716100C – Volvo 1.8 55 pins – 35 pin

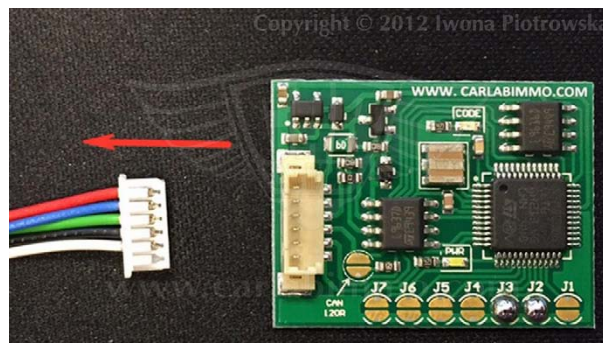
IMMO REMOVAL PROCEDURE

After cutting the immo cable off, find **pin 22** of **28F512** or **29F010** flash or **pin 21** of **27C512** or **29C512** eeprom in ECU. Solder green wire onto either of the pins depending on memory type.
Solder GND onto pin 16 and solder power supply +5V VCC onto pin 32.



Turn the ignition on for one minute

Then, turn the ignition off and wait 5 seconds. Next turn the ignition on and wait 5 seconds (repeat this action 7 times)



Disconnect the plug from emulator and check if car starts.

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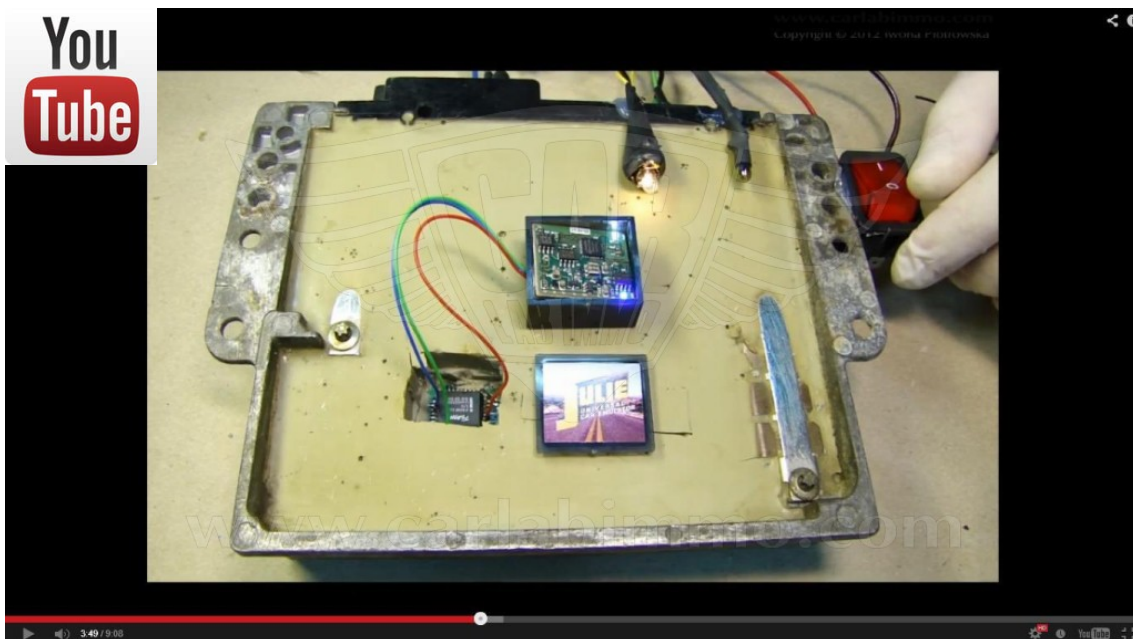
If you have a problem with removing immo from the ECU

- disconnect „minus” battery for approx. 30 seconds before starting this procedure again,
- during the procedure turn the starter several times

PINOUT IN MEMORY



If you still have any problems with removing immo please watch the instructional video

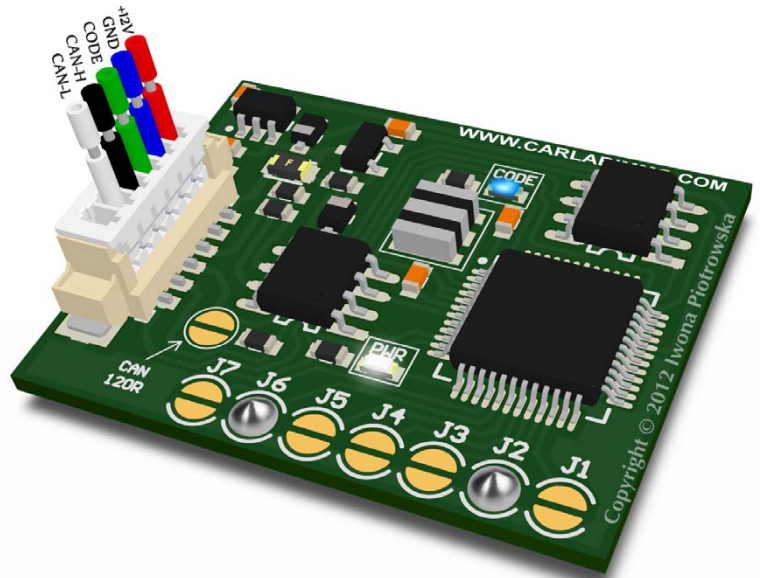


You can buy our products and obtain technical support from our distributor. Find a distributor near you by clicking on the link: www.carlabimmo.com/our-partners

Yamaha

In Universal Julie Emulator
solder jumpers J2 and J6

Available as dedicated emulator or
Universal Julie Emulator program no. 41



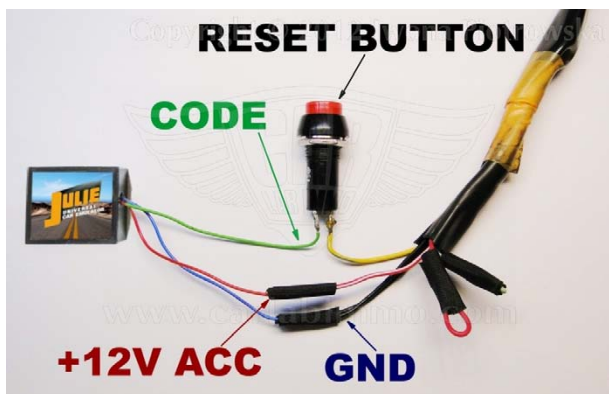
USE

Yamaha motorbikes
and scooters from 2004 to 2010

YZF R1 / YZF R6
FZ6 N / FZ6 S
T-MAX
X-MAX
V-MAX
and others



Connecting Emulator to the wiring is presented in the pictures below:



You connect code line by pressing the RESET button. In order to start the motorbike you firstly need to press and hold the RESET button, then turn the ignition and then release the RESET button. Now you can start the engine.

The wires:

Red with green stripe and grey - cover with insulation tape



If a fuel pump does not work during turning the ignition, this is a symptom of immobiliser malfunction. In such an event, you can use this emulator.



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ATTENTION!!!

This emulator can only be used for testing purposes or to verify accurate functioning of AirBag system.

This emulator cannot remain in your car as a replacement for new seat occupancy mat

The emulator needs to be connected to the plug under the passenger seat instead of original seat occupancy sensor.

There are 3 cables

+12V ACC **red**

GND **blue**

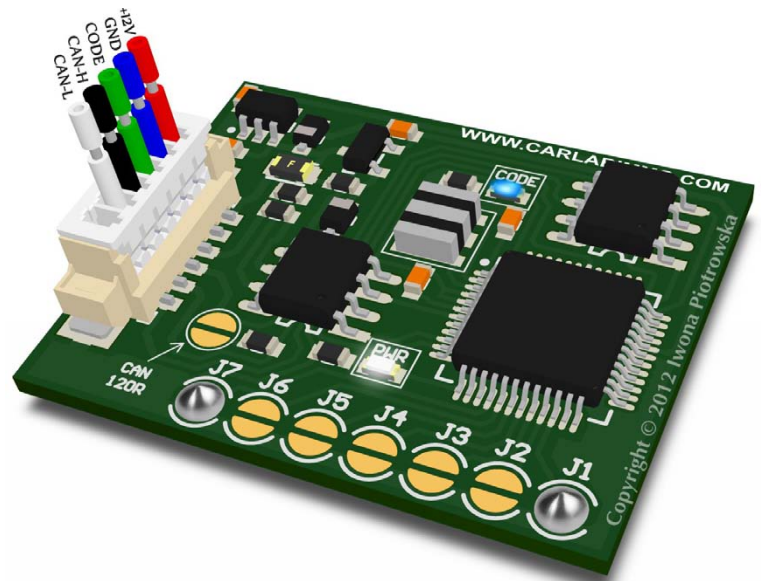
Digital signal **green**

Before connecting the emulator, use multimeter to check signals on pins in the plug!

No.1 BMW – *without installed child seat*

**In Universal Julie Emulator
solder jumpers J1 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 1)



USE

Attention!

If still, after installation of the emulator, your car signals unfastened passenger seatbelt fault, then put in a resistor in place of seatbelt sensor.

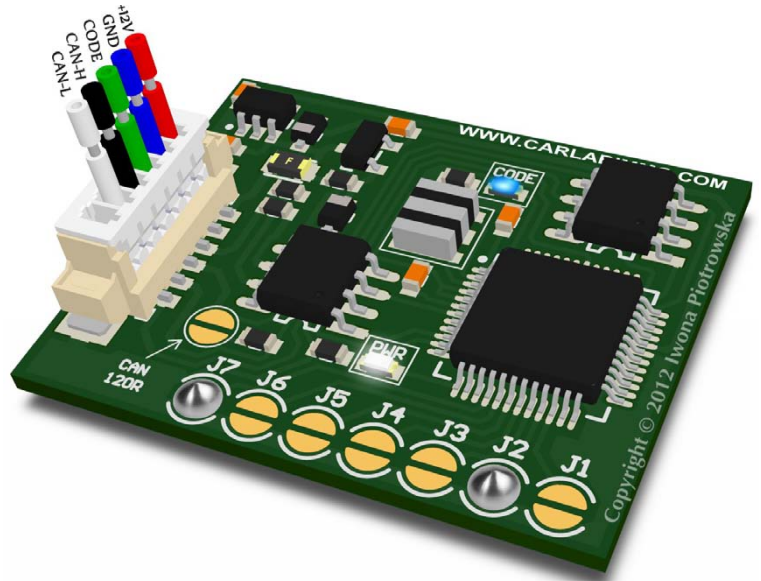
For E90, use 680 Ω
For E60, use 510 Ω

Europe from 2007 to 2010
E60 , E63 , E64 , E65 , E70 , E71 , E81 , E90 , E92 , E93

No.2 Mercedes - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J2 and J7**

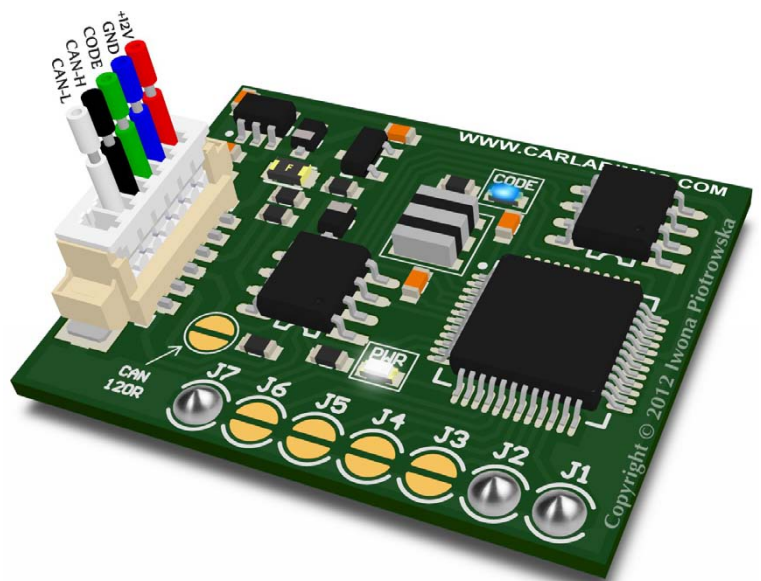
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 2)



No.3 Mercedes - *with installed child seat*

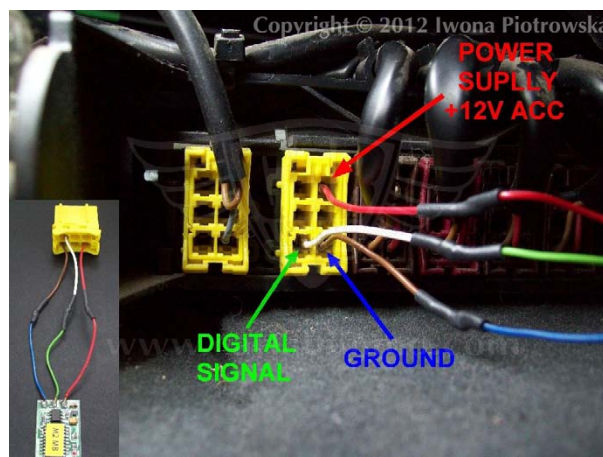
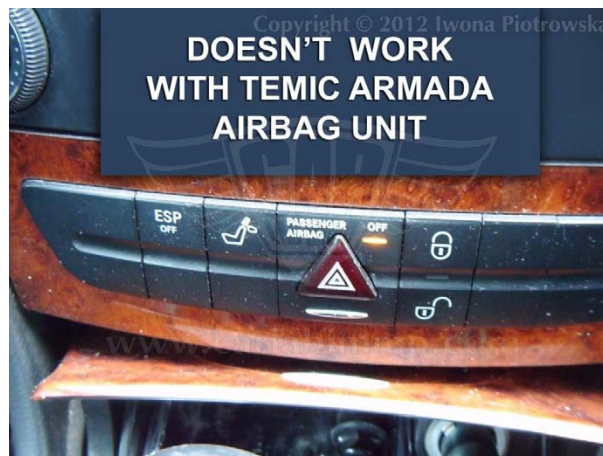
**In Universal Julie Emulator
solder jumpers J1 J2 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 3)



USE

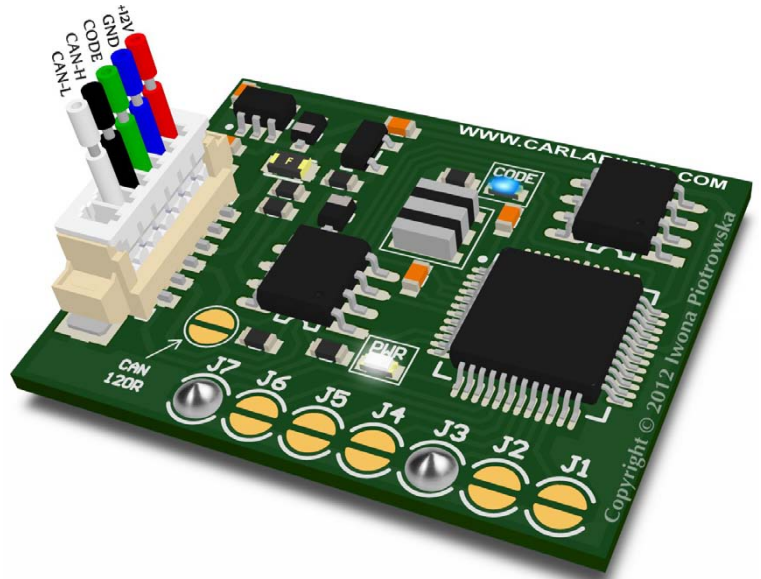
- E-class W211 from 2002 to 2004 with Temic airbag controller
- S-class W220 from 2003 to 2005



No.4 Mercedes - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J3 and J7**

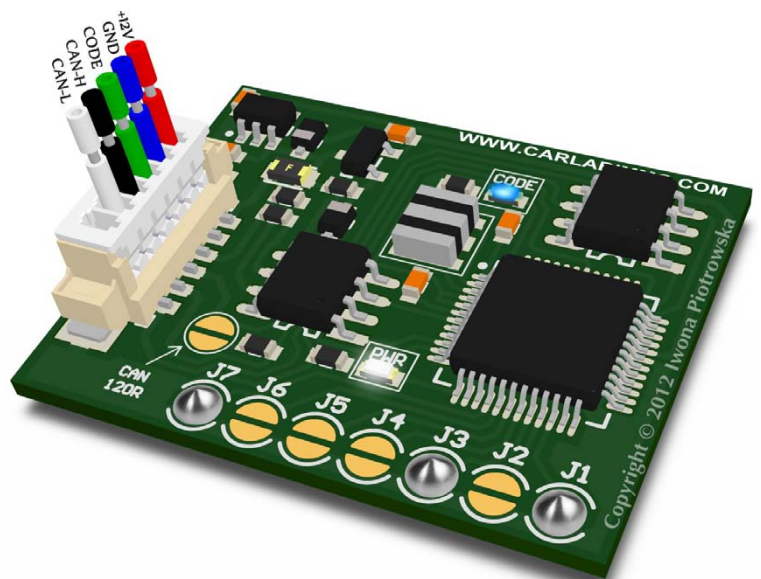
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 4)



No.5 Mercedes - *with installed child seat*

**In Universal Julie Emulator
solder jumpers J1 J3 and J7**

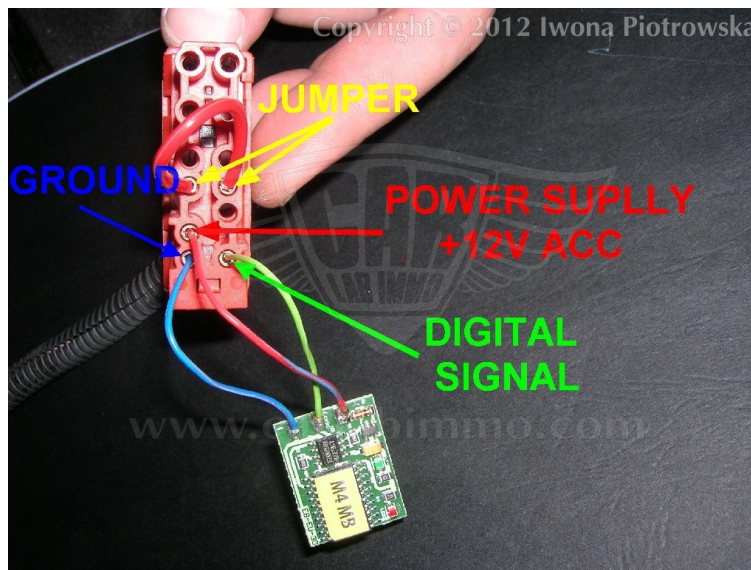
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 5)



USE

- A-class W168 from 1997 to 2001
- C-class W202 from 1999 to 2001
 - Vito W638 up to 2003
- ML 1999 with TRW airbag controller
- E-class W210 up to 1999, before lifting with airbag OFF indicator

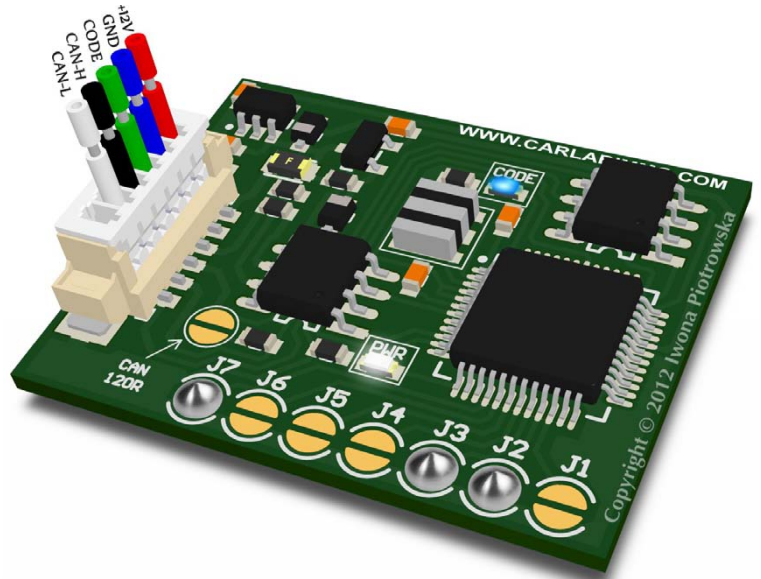
After correctly connecting the emulator, SRS/AIRBAG fault on instrument cluster goes off without necessity to delete the code of faults.



No.6 Mercedes - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J2, J3 and J7**

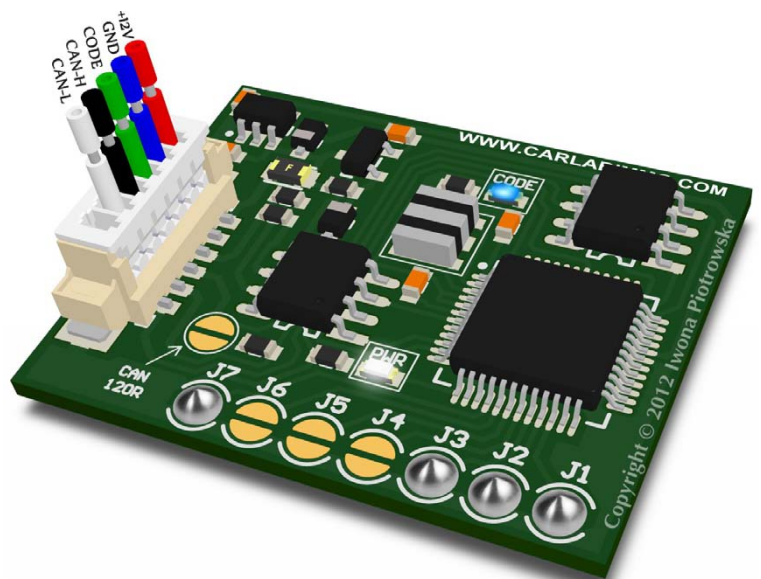
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 6)



No.7 Mercedes - *with installed child seat*

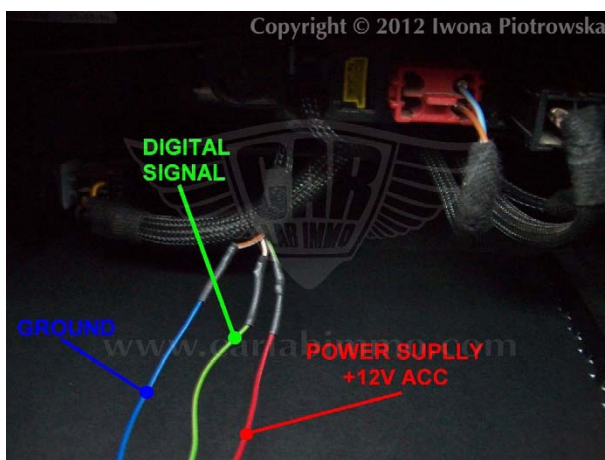
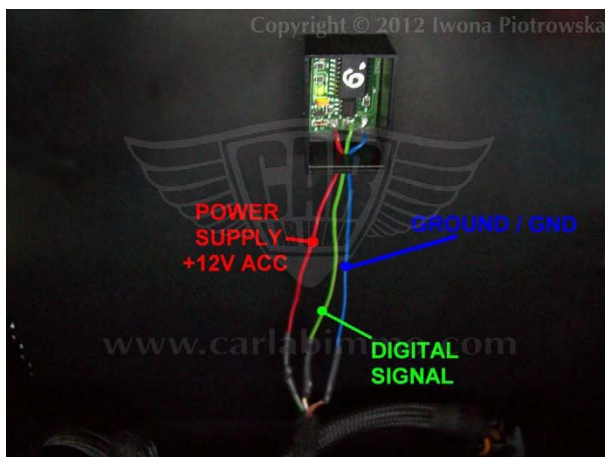
**In Universal Julie Emulator
solder jumpers J1, J2, J3 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 7)



USE

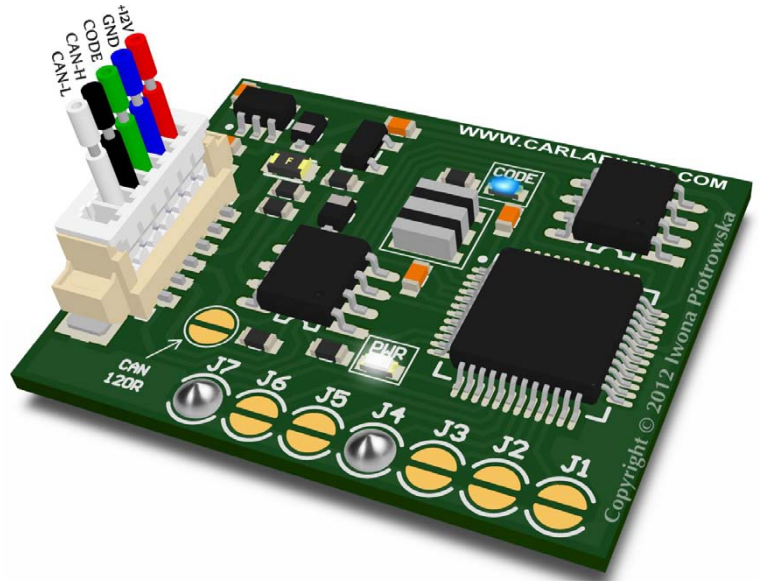
- E-class W210 from 1999 to 2003 with airbag OFF indicator after lifting
 - Vito W639 from 2002 to 2005
 - ML W163 from the year 2000
- A-class W168 from 2002 to 2005
- S-class W220 from 2000 to 2003
 - C-class W203 up to 2005
 - CLK W209
 - Vaneo



No.8 BMW - *without installed child seat*

**In Universal Julie Emulator
solder jumpers J4 and J7**

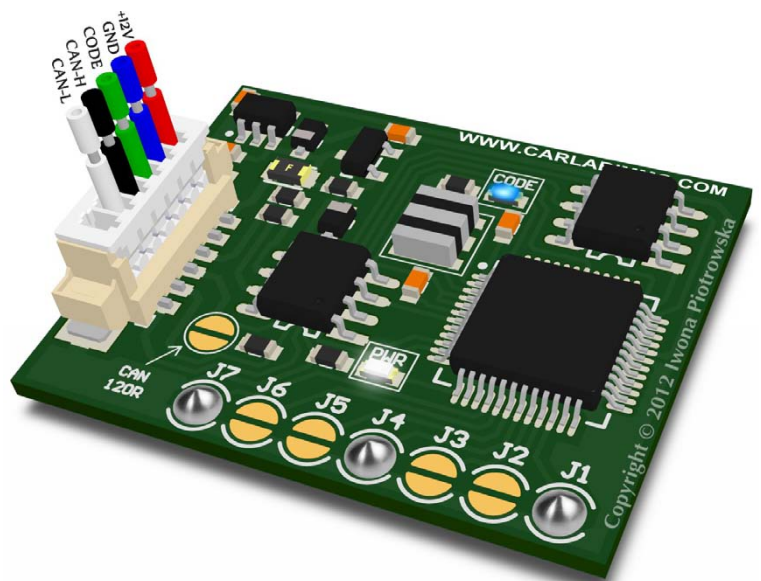
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 8)



No.9 BMW - *with installed child seat*

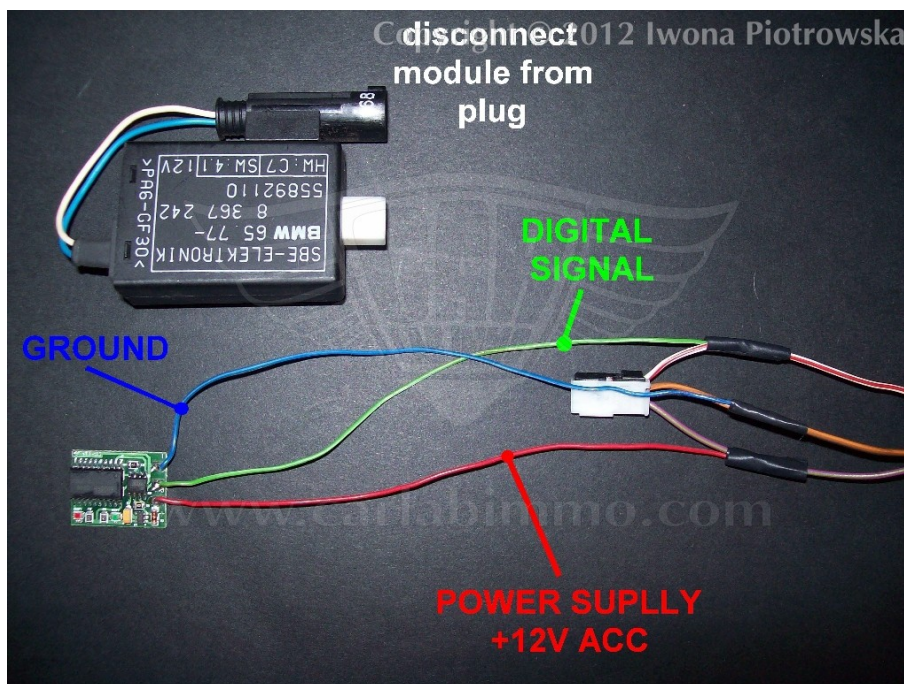
**In Universal Julie Emulator
solder jumpers J1, J4 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 9)



USE

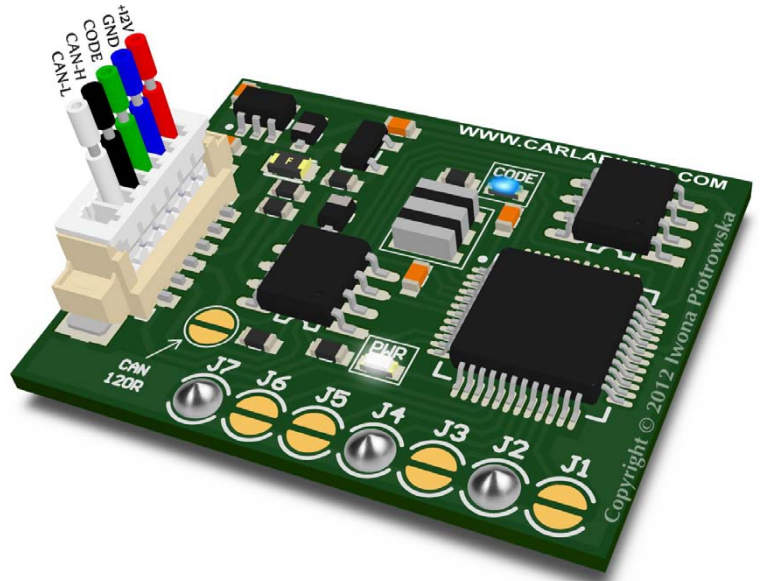
Models from 1997 to 2003:
E31, E36, E38, E39, E46, E53,
Models from 2003 to 2007:
E60, E63, E65, E87, E90



No.10 Mini Cooper - *without installed child seat*

In Universal Julie Emulator
solder jumpers J2, J4 and J7

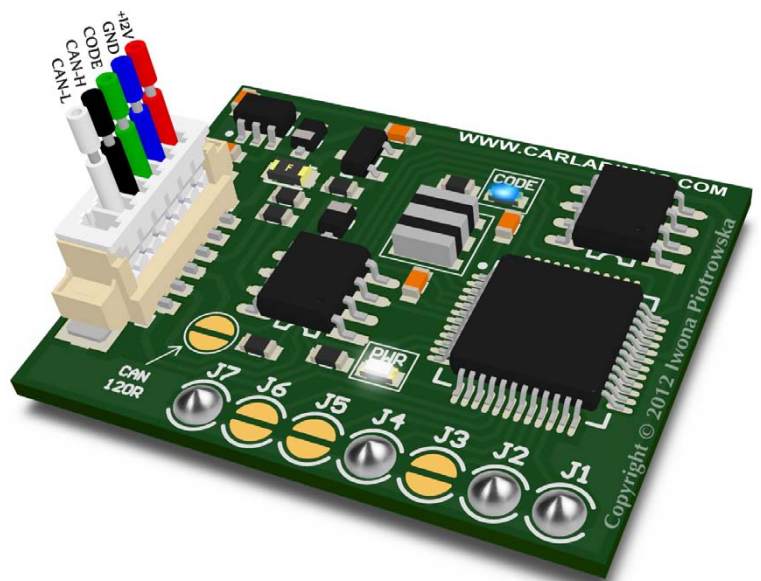
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 10)



No.11 Mini Cooper – *with installed child seat*

In Universal Julie Emulator
solder jumpers J1, J2, J4 and J7

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 11)



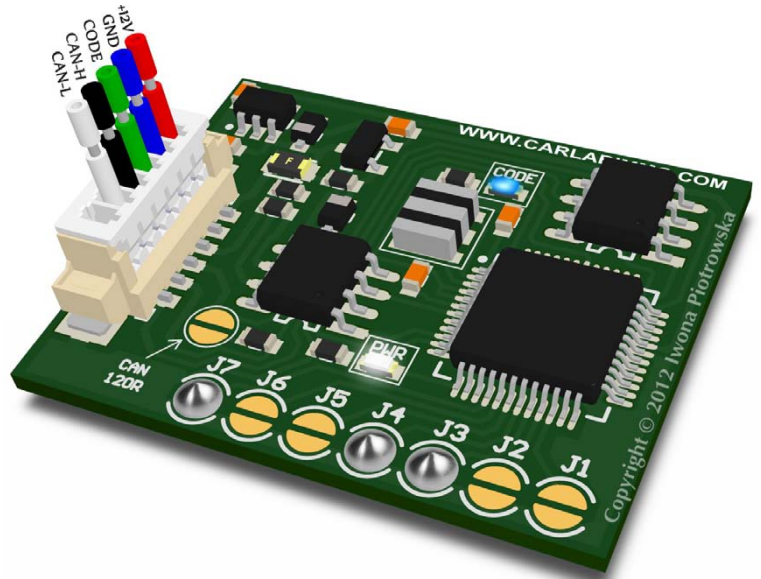
USE

Mini Cooper from 2002 to 2005

No.12 Mazda - *without installed child seat*

In Universal Julie Emulator
solder jumpers J3, J4 and J7

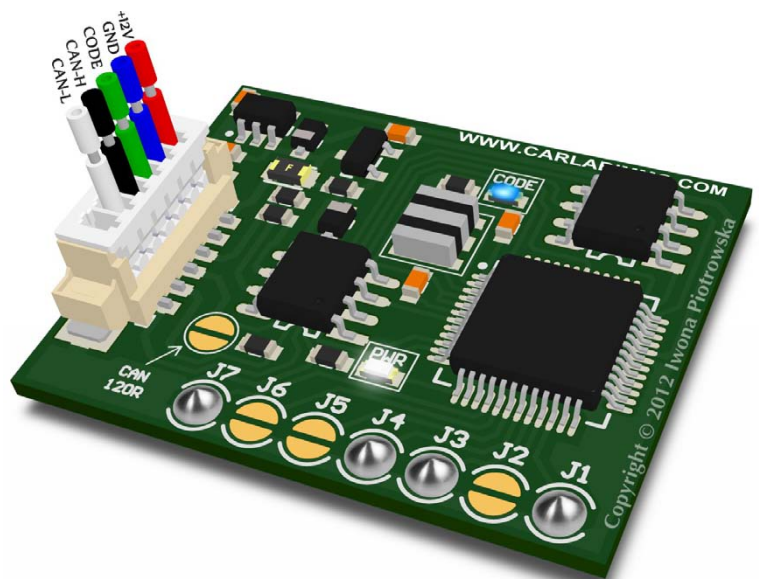
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 12)



No.13 Mazda - *with installed child seat*

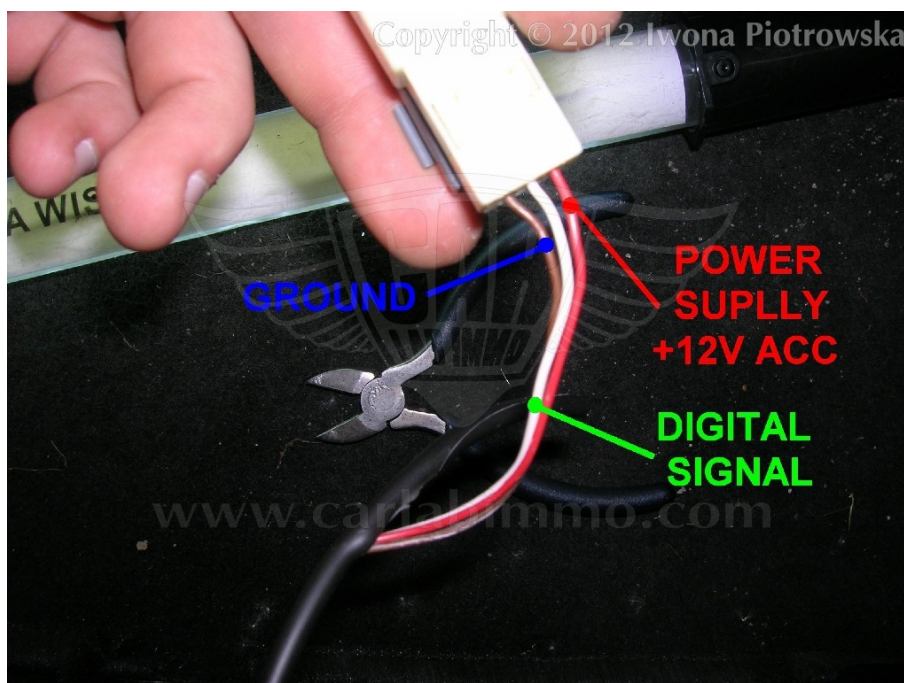
In Universal Julie Emulator
solder jumpers J1, J3, J4 and J7

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 13)



USE

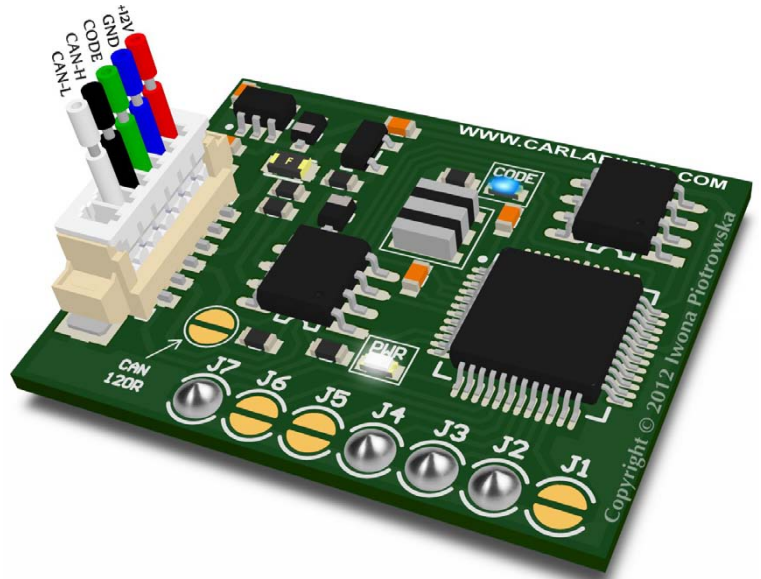
- Premacy
- MX-5
- 626
- 323
- 6



No.14 Fiat Stilo - *without installed child seat*

In Universal Julie Emulator
solder jumpers J2 J3, J4 and J7

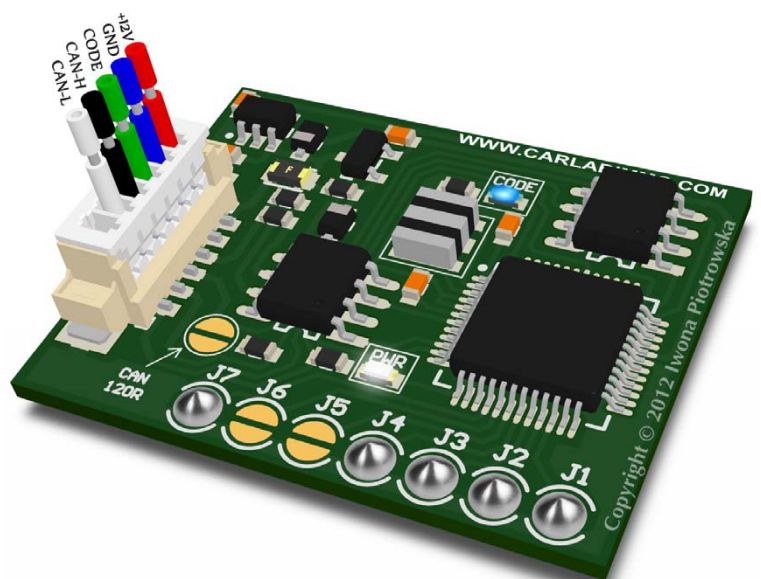
Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 14)



No.15 Fiat Stilo - *with installed child seat*

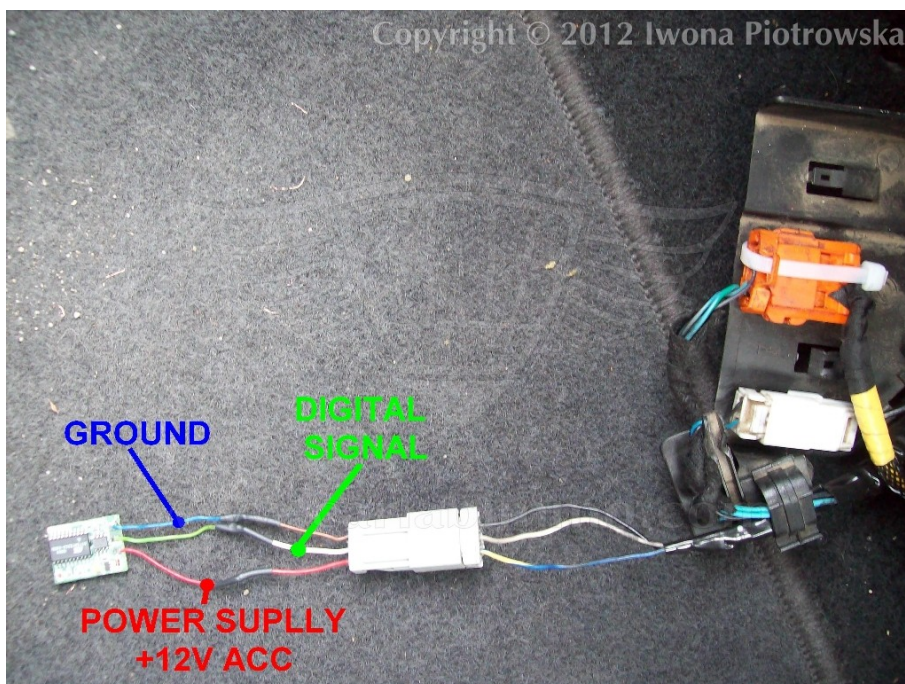
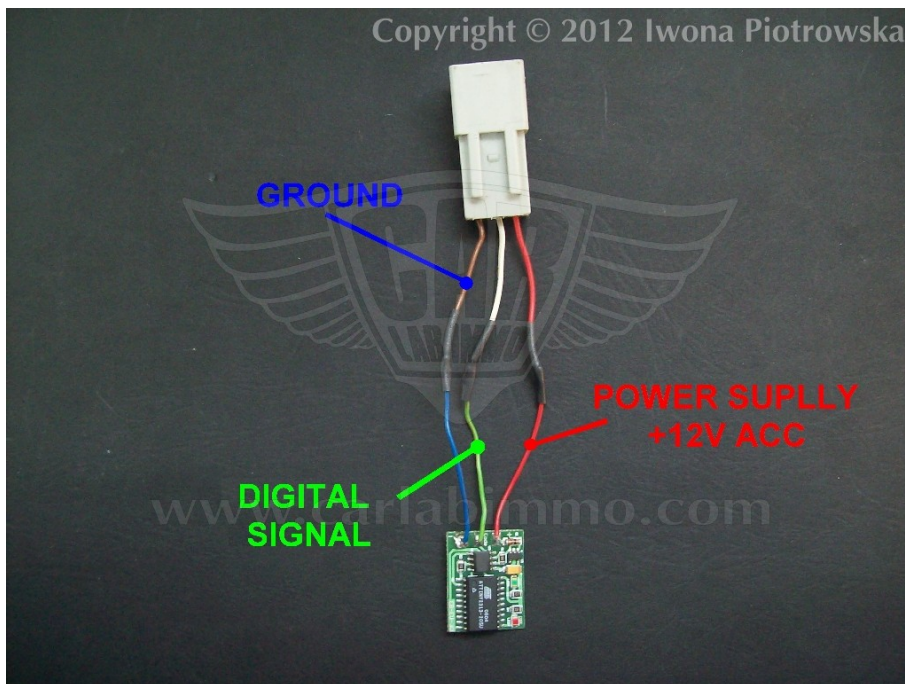
In Universal Julie Emulator
solder jumpers J1, J2 J3, J4 and J7

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 15)



USE

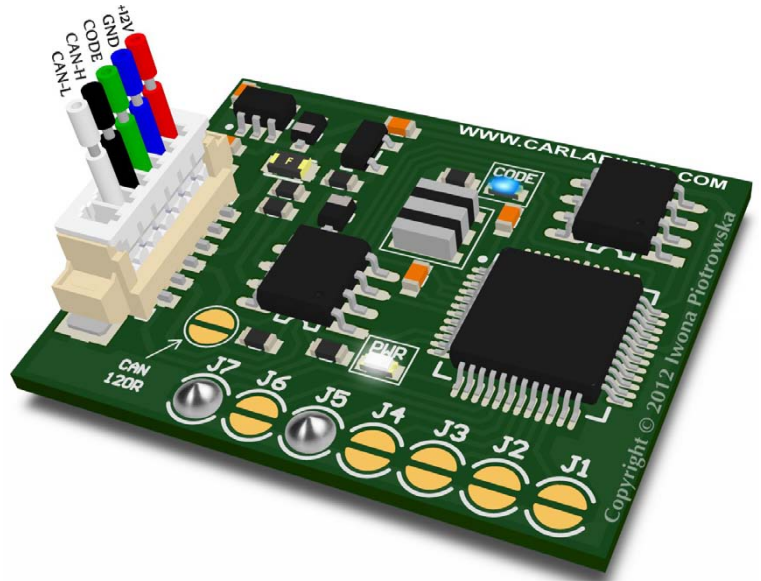
Fiat Stilo



No.16 Mercedes

**In Universal Julie Emulator
solder jumpers J5 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 16)



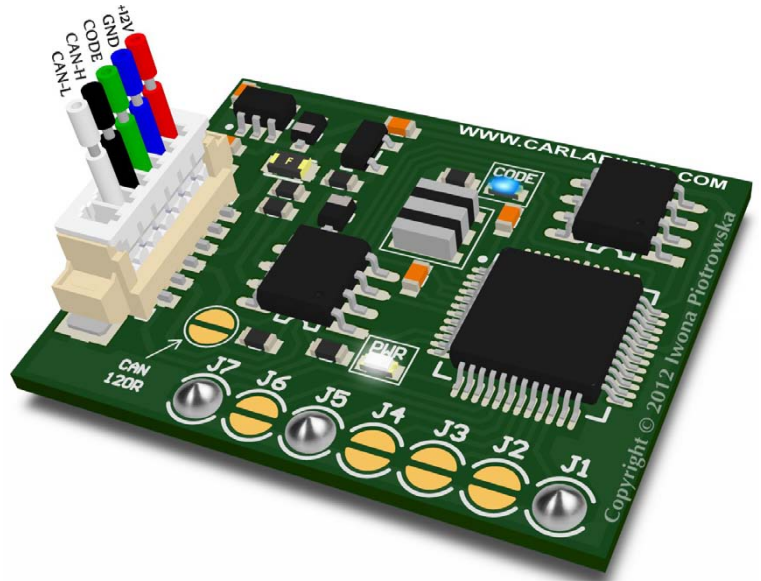
USE

- E-class W211 from 2004 to 2007 Temic
- SL W230 models the year 2004 only
- SLK W171 from 2004 to 2011

No.17 Mercedes

**In Universal Julie Emulator
solder jumpers J1, J5 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 17)



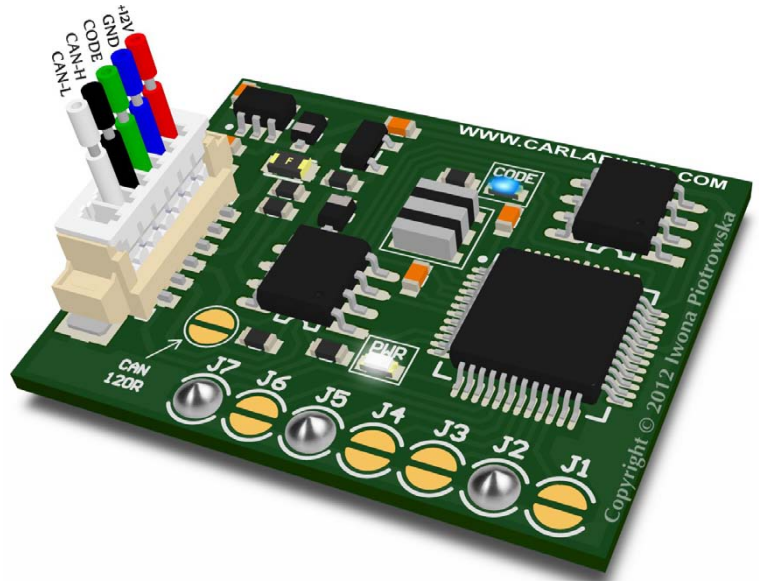
USE

- E-class W211 from 2003 to 2007 Bosch controller
- C-class W203 from 2006 to 2007
- CLS W219 from 2005 to 2010
- CLK W209 from 2006 to 2009
- S-class W220 from 2002 to 2005
- S-class W221 the year 2006 only

No.18 Mercedes

**In Universal Julie Emulator
solder jumpers J2, J5 and J7**

Available as dedicated emulator or
Universal Julie Emulator
(Seat Occupancy Sensor program no. 18)



USE

E-class W211 from 2002 to 2003 with airbag control unit:

Temic - 002 820 35 26
Bosch - 002 820 29 26, 0 285 001 441



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Tachometer tester programs

USE

You can use it to turn on the instrument cluster on the table in order to diagnose faults. After connecting the emulator to instrument cluster, most of instrument cluster segments are displayed making it easier to locate damaged areas.

Emulator is reusable!

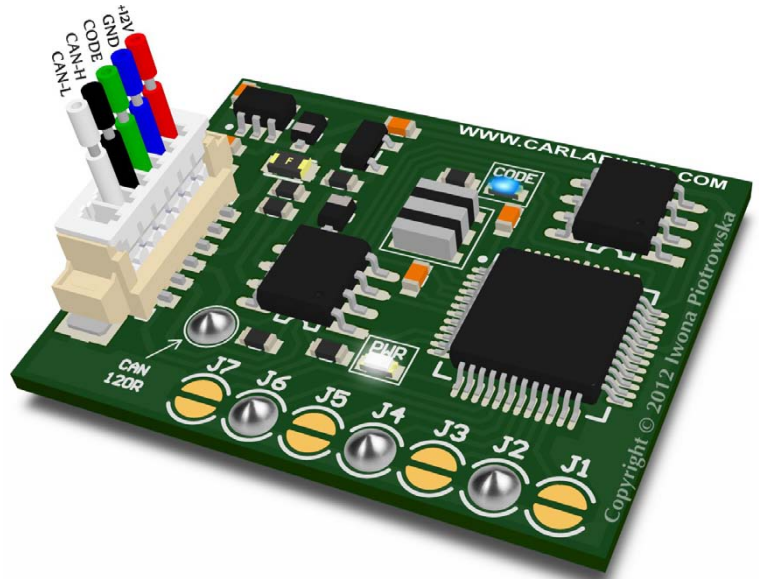
Tested on tacho:

Audi Q7 and A6
Citroen C4 Picasso
EMF Display
Renault Kangoo 3 Display
Renault Scenic II, Espace IV Tacho
Renault Scenic II Full
Renault Scenic III + Navi
VW Passat B6

Audi Q7 and A6

In Universal Julie Emulator
solder jumpers CAN120R, J2, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 1)



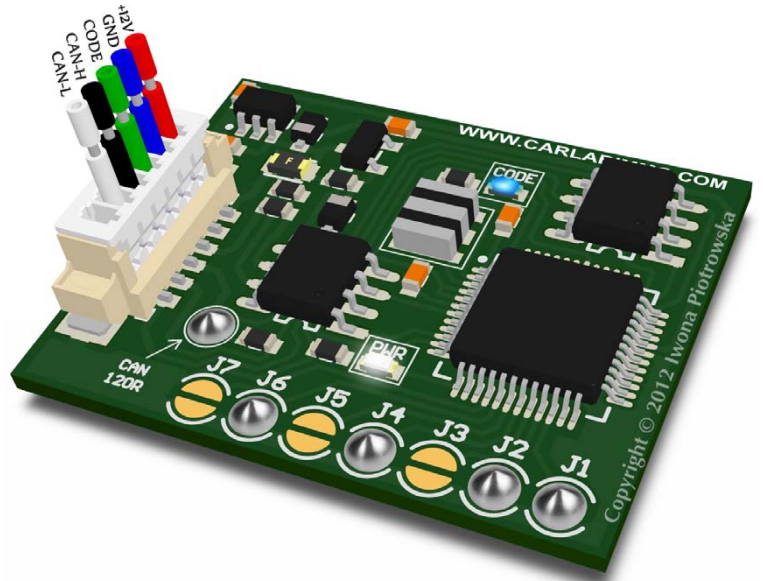
Connecting to grey socket

+12V ACC	15 pin
GND	14 pin
CAN-L	1 pin
CAN-H	2 pin

Citroen C4 Picasso

In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 2)



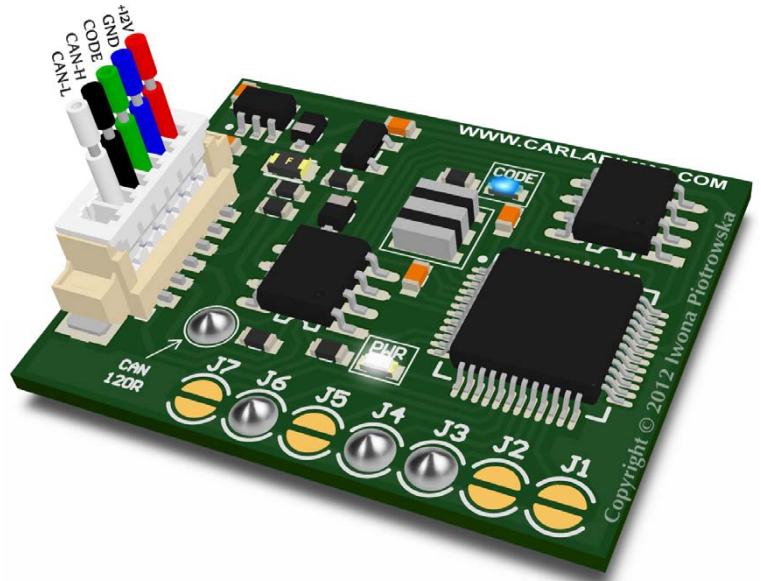
Connecting to yellow socket

+12V ACC	26 pin
GND	23 pin
CAN-L	13 pin
CAN-H	9 pin

EMF Display

In Universal Julie Emulator
solder jumpers CAN120R, J3, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 3)



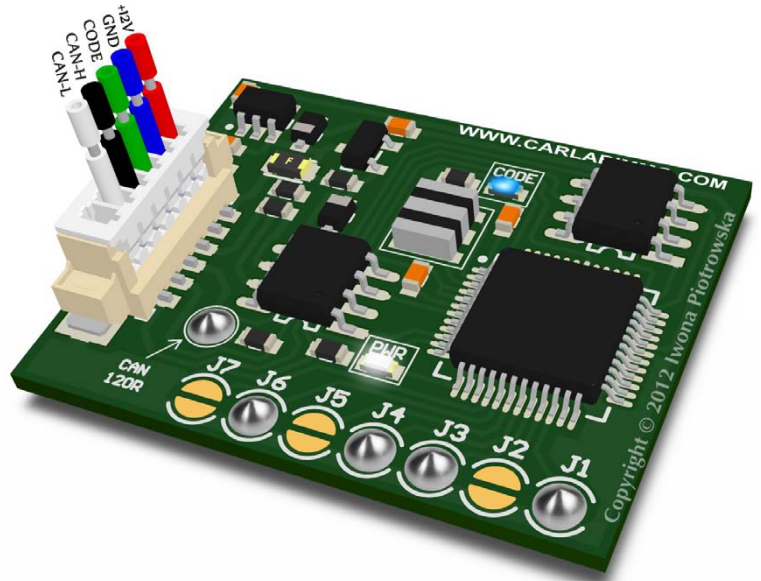
Connecting to brown socket

+12V ACC	1 pin
GND	3 pin
CAN-L	7 pin
CAN-H	9 pin

Renault Kangoo III Display

In Universal Julie Emulator
solder jumpers CAN120R, J1, J3, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 4)



Connecting to display socket

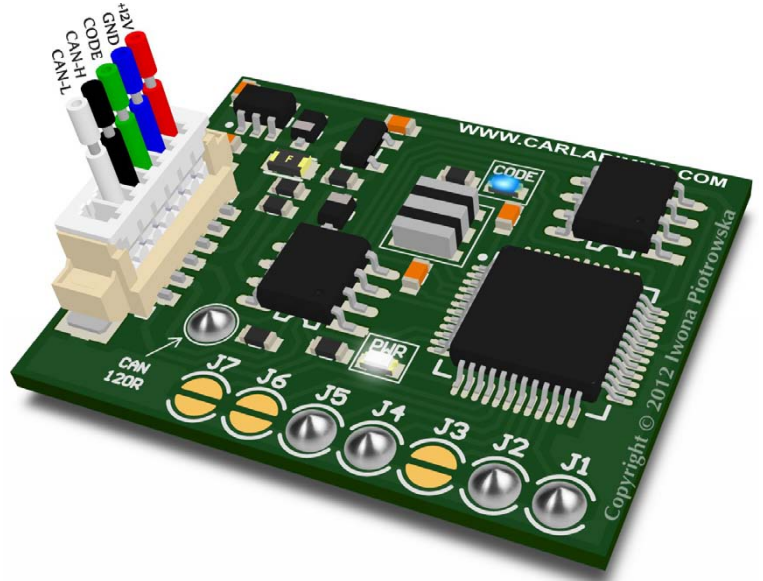
+12V ACC	3 pin
GND	12 pin
CAN-L	15 pin
CAN-H	16 pin

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Renault Scenic II, Espace IV Tacho

In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J4 and J5

Available as Universal Julie Emulator
(Tachometer tester program no. 5)



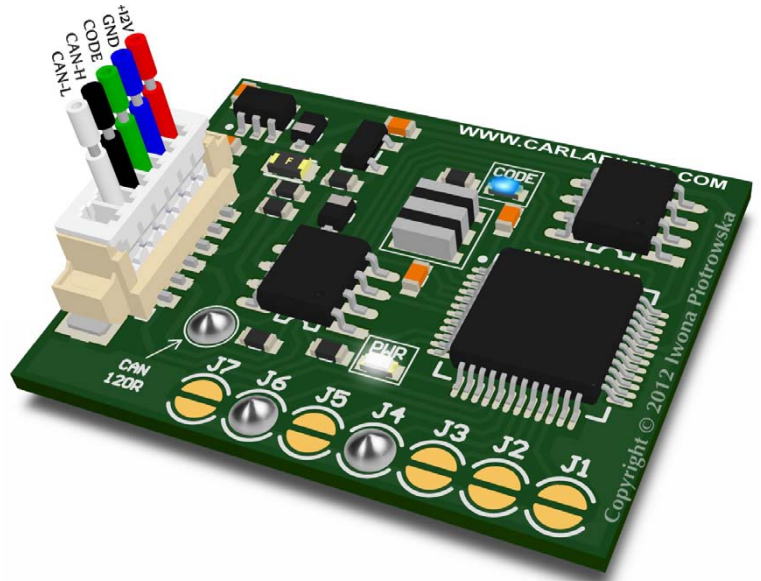
Connecting to grey socket

+12V ACC	1 pin
GND	2 pin
CAN-L	29 pin
CAN-H	30 pin

Renault Scenic II, Espace IV Full

In Universal Julie Emulator
solder jumpers CAN120R, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 6)



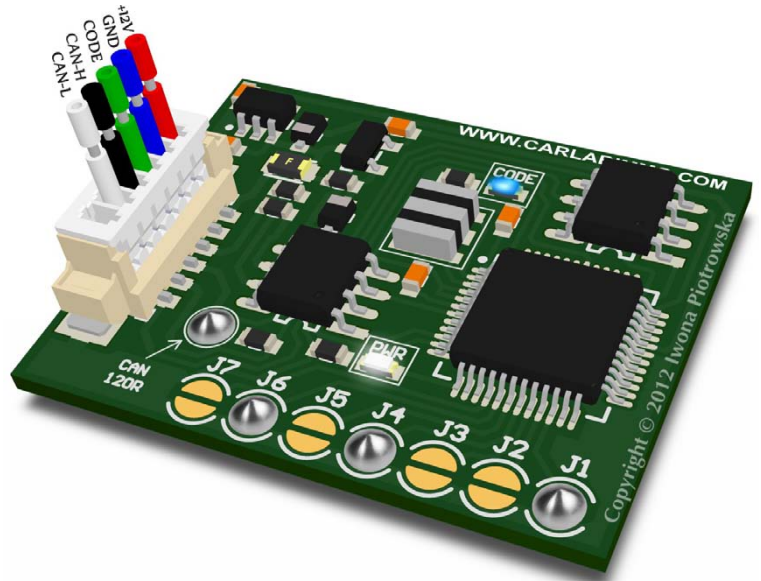
Connecting to grey socket

+12V ACC	1 pin
GND	2 pin
CAN-L	29 pin
CAN-H	30 pin

Renault Scenic III + Navi

In Universal Julie Emulator
solder jumpers CAN120R, J1, J4 and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 7)



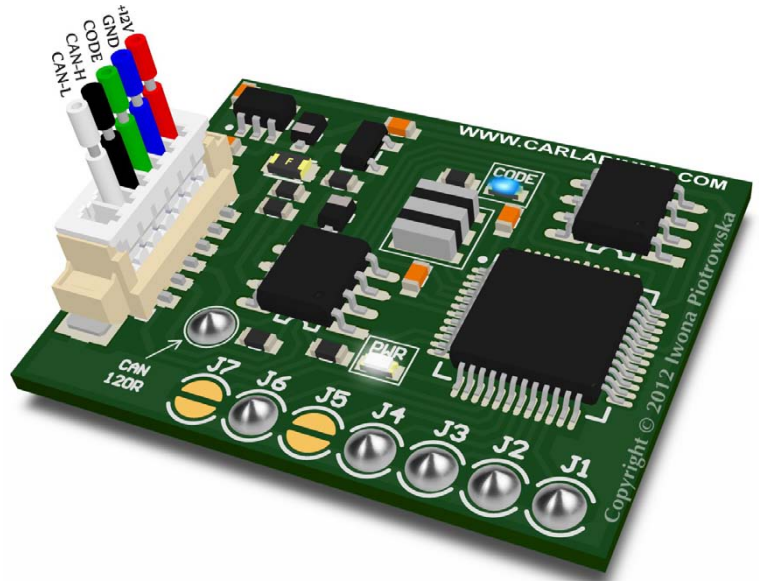
Connecting to grey socket of tacho

+12V ACC	2 pin
GND	3 pin
CAN-L	11 pin
CAN-H	12 pin

VW Passat B6

In Universal Julie Emulator
solder jumpers CAN120R, J1, J2, J3, J4
and J6

Available as Universal Julie Emulator
(Tachometer tester program no. 8)



Connecting to blue socket

+12V ACC	31 pin
GND	16 pin
CAN-L	29 pin
CAN-H	28 pin

Warning!!!

Due to possible construction changes of cars, check signals with multimeter in the ECU plug.



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